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No. 2563.

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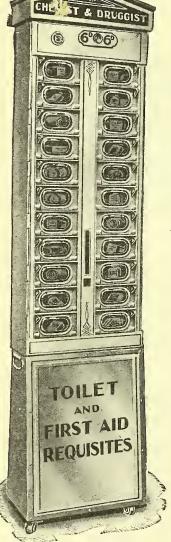
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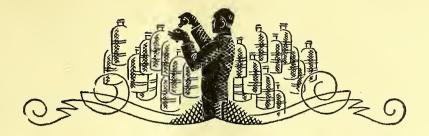
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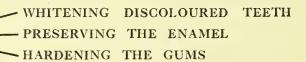
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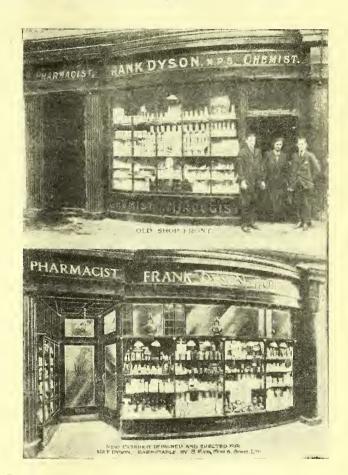
# Page

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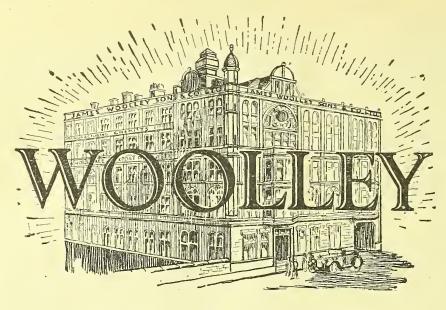


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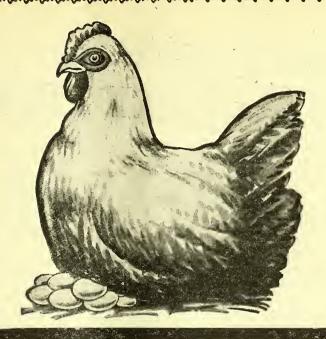


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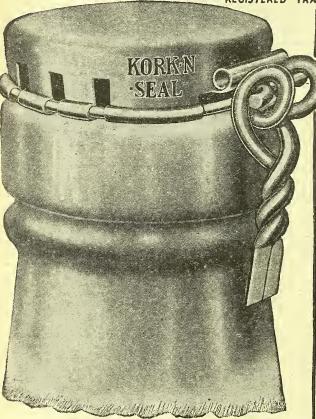
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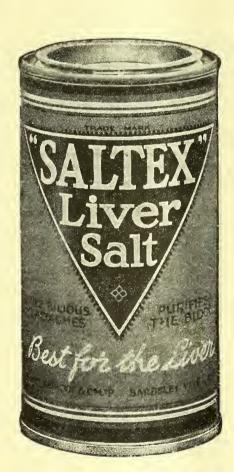
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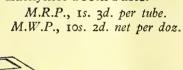


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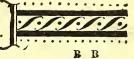
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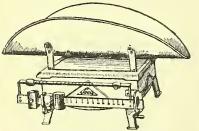
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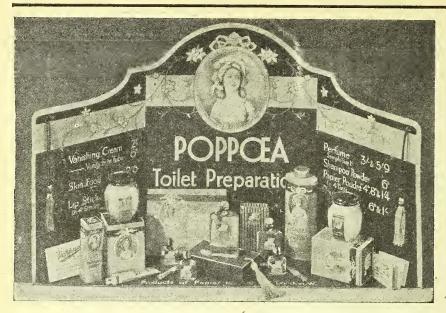


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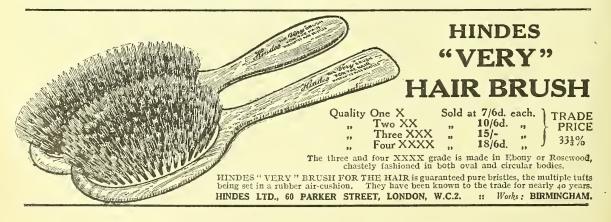
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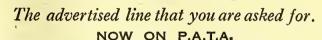




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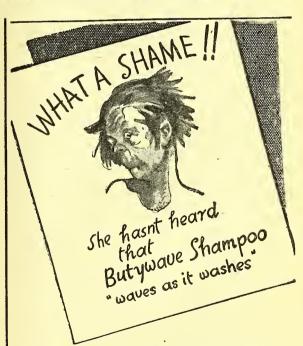
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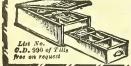
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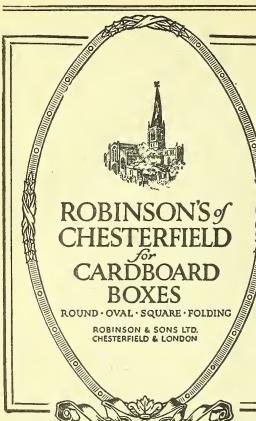
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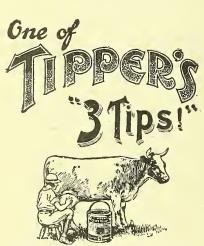
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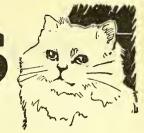
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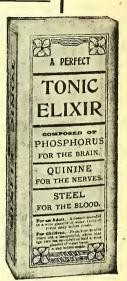
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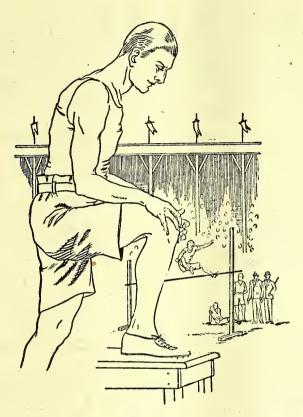
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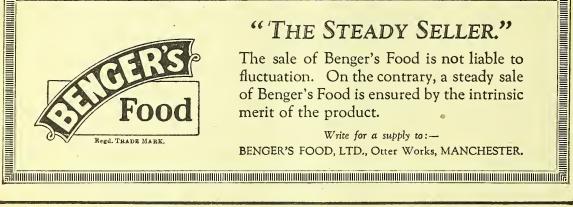
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# Dangerous Drugs Acts Card

THE Dangerous Drugs Acts Card, No. 4 of the C. & D. Poisons Cards series, has been thoroughly revised in consequence of the important changes brought about by recent legislation and embodied in the Consolidated Regulations of 1928. These changes render the previous issue of the Card out of date. The opportunity has been taken to rearrange the wording of the explanatory matter elucidating the text of the Regulations, with a view to securing, if possible, even greater precision in this respect. Copies may be obtained from The Publisher, THE CHEMIST & DRUGGIST, 42 Cannon Street, London, E.C.4, price 1s. each, three copies for 2s. 9d., post free.

Swiss Pharmaceutical Products Exports.—The exports of pharmaceutical products from Switzerland during 1928 were valued at £1,943,280, compared with only £1,941,120 in 1927.

# English and Welsh News

The Editor will be obliged if subscribers will send him marked copies of newspapers containing items of interest for insertion in this or other news sections.

#### Oil, Chemical and Colour Exhibition

The second International Oil, Chemical and Colour Trades Exhibition (the first was an event of the year 1926) is being held at the Royal Agricultural Hall, Isington, London, N.1. The work of organisation has been effected by the International Trades Exhibitions, Ltd., and the hours are 11 a.m. to 8 p.m. from March 16 to 23, inclusive. C. Christopherson & Co. are showing a film Whiffen & Sons, Ltd., are exhibiting a range of chemicals, including iodides, bromides, alkaloids, iodoform, vermilion and camphor. A feature is made of Staniform, which is most just with marked the same of the which is meeting with marked success in clinical trials. Thomas Tyre: & Co., Ltd., give prominence to such chemicals as interest paint manufacturers, but there are also specimens of analytical reagents. Bush, Beach & also specimens of analytical reagents. Bush, Beach & Gent, Ltd. (alkalis, fertilisers, etc.), and Langley, Smith & Co., Ltd. (turpentine, linseed oil, etc.) are also exhibiting. The greater part of the exhibition is devoted to machinery and plant. The stand of Roberts' Patent Filling Machine Co. is unusually interesting. William Gardner & Sons (Gloucester), Ltd., display a comprehensive range of their sifting and mixing machinery. Burt, Boulton & Haywood, Ltd., and Young's Patent Hygienic Bin Co. are among other exhibitors of note. Daily lectures have been arranged. been arranged.

#### Sale of Greek Curios

On March 20 the auction sale at the premises of Glendinning & Co., Ltd., Argyll Street, London, W.1, in cluded several Greek curios of pharmaceutical, medical and surgical interest. The following descriptions are taken from Messrs. Glendinning's catalogue :-

A Greek druggist's ladle in silver, 11 in. long, the handle ending in a swan's head. A beautiful and rare object (the bowl slightly repaired). About 400 B.C. From Tricca.

Three Greek druggists' spoons for measuring small doses, one in bronze, two in ivory, the largest engraved with three marks indicating its capacity, probably "three grammaria." About 400 B.C. From Tricca. [Each mark consists of a dot within two concentric circles. The lot was in an Allenburys pastille tin.]

Two Greek druggists' weights in hard stone, marked: and ... respectively. Weight about 4 oz. and 3 oz.

About 400 B.C.

Four little bowls, each with two handles, from the site of the temple of Asklepios at Tricca, they were probably used as cupping vessels. Diameter from 2.3 in. to 1.6 in. About 300 B.C.

An ancient alabastron, or "soap-bottle," of Corinthian fabric, painted with two seated cats; the Greeks used oil instead of soap for washing, and their alabastra were made to be carried with a string-handle. Height 8.2 in. About 600 B.C. Found at Corinth.

A Greek baby's feeding-bottle found in a child's tomb near Athens; it is of black-glazed terra-cotta, and fitted with a nipple-shaped spout in front and a handle at one side, the top is covered in, but pierced with holes so that air can get to the milk, but no flies. Diameter over handle, 3.7 in. An extremely rare type of vessel. About 450 B.C.

#### Visits to Works

On March 13 a party of members of the South-West London Chemists' Association was conducted round the works of the United Glass Bottle Manufacturers, Ltd., at Charlton. The visit was very instructive, the party being shown all kinds and sizes of bottles being made. from the importing of the raw materials, their preparation and mixing, to manufacture of the glass and moulding of the finished product. The directors entertained the party to tea at the conclusion of the tonr.

A representative party of pharmacy students of Manchester University visited the premises of Ayrton, Saunders & Co., Ltd., Liverpool, on March 13, and were

conducted over the laboratories and Hanover Street premises by Messrs. G. Dalrymple and A. Chapman, directors of the company. The party was subsequently entertained in the library of the staff canteen, and welcomed on behalf of the company by Mr. Dalrymple. Miss Duncan expressed in a delightfully original manner the pleasure and benefit which the visit had given. In promising to convey the vote of thanks to the board, Mr. Chapman indicated that as a manufacturing and wholesale house the company considered it part of their duty to the profession to afford these facilities.

An enjoyable afternoon was spent by students of the pharmacy department of the Leicester College of Technology, at the works and laboratories of Boots Pure Drug Co., Ltd., at Nottingham, on March 14. The party—numbering about sixty full-time and part-time students—was conducted in four groups through the various departments, the different processes being explained by courteous guides. The fine collection of materia medica specimens was an object of great interest, and the students were particularly attracted by the preparation and packing of Vitamalt toffee. The laboratory where insulin was being prepared from the pancreas was also shown, and two huge vats, in one of which three tons of cascara bark was macerating, excited much admiration. After the tour of the works the students were entertained to tea, and parted after the thanks of the party to the firm and staff had been voiced by Mr. H. Chamings, Ph.C., and seconded by Miss A. Kay.

#### Public Institution News

The Sculcoates Board of Guardians considered, on March 18, the findings resulting from an inquiry into the recent use of cocaine at their institution. The findings were:—That Dr. Robinson was guilty of serious neglect of duty in not making the necessary entries in the dangerous drugs register with regard to the use of cocaine; that the loss of the previous dangerous drugs register has not been satisfactorily accounted for; that Dr. Robinson had no right to use the guardians' drugs without permission and that the guardians have never given that permission; and that Dr. Robinson's conduct with regard to the matters mentioned has been such as to affect seriously the question of granting a superannuation allowance to him. The report stated there is evidence that quantities of cocaine supplied to the institution during about two years ended December last were:—A cocaine preparation, 491 doz., value £36 2s. 5d.; cocaine solution, 81 oz., value £14 18s. 9d.; cocaine pastilles, 8 oz., value 7s. 6d. Dr. Robinson admitted he used the greater portion of the cocaine preparation for treating himself. The report added that Dr. Robinson had received a letter from the Home Office indicating that, subject to certain conditions personal to himself, no further action would be taken in the matter. The report was adopted, and the Board decided to seek the advice of the Ministry of Health.

#### Birmingham

The annual meeting of the Birmingham and Midland Section of the Society of Chemical Industry was held at the Engineers' Club, Birmingham, on March 14. Mr. W. A. S. Calder presided. The following officers were elected for the ensuing session:—Chairman: Mr. W. A. S. Calder; Vice-Chairmen: Dr. H. W. Brownsdon, Dr. E. D. Mason, and Mr. A. W. Knapp; Treasurer: Mr. W. T. Collis; Secretary, Mr. G. King. The chairman delivered a short address on the analysis of complaints. A paper was read by Mr. A. W. Knapp (chief chemist at Bournville) on "The Marking of Laboratory Vessels." Mr. W. E. Wallis read some notes on "Metallic Carbonyls."

Mr. Foden presided at the annual dinner of the Birmingham and District Branch of the Pharmaceutical Society, held at the Imperial Hotel, Birmingham, on March 13; the Lord Mayor of Birmingham was the chief guest. In proposing the toast of "The Society," coupled with the name of Mr. E. H. Simmons, a member of the Council, the Lord Mayor spoke of the care which the Society exercised for the proper training of those who intended to practise their profession. The old system of apprenticeship was gradually passing

away, and in place of it the young people underwent a specialised course of study and training at a technical school or college. This was better for them, provided the teachers were familiar with the work of the workers.

#### Liverpool

A branch of the Photographic Dealers' Association has been formed at Wallasey, with Mr. H. Siddall as president; Mr. A. Colbeck, vice-president; Mr. J. Valentine, treasurer; Mr. H. C. Tristram, secretary.

A successful dance was held by the Liverpool Pharmacy Club, on March 13, in Reece's Ballroom, Clayton Square. About 150 members and friends were present, including many members of the Liverpool Chemists' Association. The committee welcomed Mr.Wallbridge, president of the Association, Mrs. Wallbridge, and Mr. and Mrs. Humphreys Jones as guests of the club. The duties of M.C. were ably carried out by Mr. L. D. Houghton and Mr. F. A. Boggiano, who were assisted by Mr. C. H. Leggett, Mr. K. Price, Mr. W. Scott, and Mr. F. Riley as stewards. Spot prizes were distributed and carnival novelties added to the enjoyments of the evening after the supper interval. Mr. Boggiano proposed a vote of thanks to the new committee. Mr. Houghton made a suitable reply.

#### Miscellaneous

Poison-Licence Application.—Fletcher & Brown, Ltd., Sidcup, have applied to the Kent-County Council for a licence under Section 2 of the Poisons and Pharmacy Act, 1908.

MEMORIAL WINDOW UNVEILED.—At Trinity Wesleyan Church, Blackburn, on March 17, a window was unveiled in memory of the late Mr. William Woolley, J.P., manufacturing chemist.

BRITISH INDUSTRIES FAIR.—The Department of Overseas Trade announces that the British Industries Fair of 1930 will be held at Olympia, London, W.14, on February 17—28 inclusive.

WINE-LICENCE REFUSED.—At the adjourned licensing sessions, at Wigan, on March 11, the application of Mr. W. A. Robinson, chemist and druggist, Bryn, for a wine off-licence was refused.

Long Service Awards.—In recognition of forty years' continuous service two employees of William Blythe & Co., Ltd., manufacturing chemists, Church, Accrington, have been presented with gold watches.

Food and Drugs (Adulteration) Act.—At Hull Police Court, recently, Albert E. Boosey, general dealer, Woodcock Street, was fined 5s. for selling sweet spirit of nitre deficient in ethyl nitrite to the extent of 32.2 per cent.—At the same court, Gertrude Brown, Tyne Street, was similarly fined for selling sweet spirit of nitre deficient to the extent of 96.7 per cent.

Fires.—Owing to a defect in a flue, an outbreak of fire occurred on March 18 at the offices of the Pharmaceutical Society of Great Britain, Bloomsbury Square, London, W. A front room in the basement and the contents were slightly damaged.—An explosion of over-heated chemicals caused an outbreak of fire on March 20 at the premises of E. R. Cherrett, Ltd., chemists, Monkwearmouth, Sunderland. After half an hour's work the flames were subdued, but considerable damage to stock was done in the warehouse and shop.

was done in the warehouse and shop.

In the courts.—At Lambeth Police Court, London, on March 14, Edwin W. Booth, Northcross Road, S.E., was fined 10s. 6d., with 21s. costs, for having sold malt vinegar deficient in acetic acid to the extent of 63 per cent.—At Newcastle-on-Tyne Police Court, recently, Eva Tate, alias Briggs, was sentenced to four months' imprisonment on charges which included stealing brushes and other articles, valued at £4 2s. 7d., from a local branch of Boots, Ltd.—In Bloomsbury County Court, London, recently, the Pharmaceutical Society obtained judgment against Mr. W. S. Proctor, Langley Mill, Nottingham, Mr. A. D. Ventin and Mrs. A. G. Ventin, Haverfordwest, who had failed to return their certificates after discontinuing their subscriptions as members of the Society.—At the same court, judgment was given for the Society against Mr. F. Hargreaves, Blackburn, and Mr. H. W. Green, Longton, for arrears of membership subscriptions.

# Irish News

#### Brevities

Mr. A. Brenan has opened a pharmacy at Kilkenny Street, Castlecomer.

Miss A. L. Connolly, Ph.C., has opened a medical hall at 7 Rock Buildings, Strand Road, Londonderry.

The Meagh Regional Education Committee decided to purchase cod-liver oil and syrup to be given to poorly nourished children attending the Johnston to poorly Memorial School.

At co. Fermanagh Assizes, on March 18, the grand jury threw out the bill against John Joseph Flanagan, who was charged with the murder by poison of Lily Flanagan (C. & D., 1928, II, 687).

At the Dublin District Court, on March 14, a fine of 10s., with £2 2s. costs, was imposed on Elizabeth McAedden, Brookvale Road, for having sold seidlitz powders which were certified by the public analyst to be 38 per cent. deficient in tartaric acid.

# Scottish News

#### **Brevities**

County Insurance Committees have now issued cheques in final payment of accounts for the year 1928.

Efforts are being made by the Bridge of Allan Town Council to restore the reputation of the local waters and the town to a leading position among British spas.

"After the somewhat sombre aspect of winter displays in chemists' windows, the more cheerful Easter toilet goods and in some cases pioneer photographic shows now proclaim the arrival of spring," writes a correspondent.

Mr. Frank G. Young, C.B.E., B.Sc., has been appointed principal of the Dundee Technical College in succession to Dr. Lumsden, who is retiring. Mr. Young commenced his career in a pharmacy, but decided to pursue pure science.

Many Scottish chemists have learned with pleasure of the nomination of Dr. F. O. Bower, F.R.S., as president of the British Association for 1930. Professor Bower was formerly botany examiner for the Pharmaceutical Society in Edinburgh, and possessed a sense of humour that placed candidates at their ease.

Lodge Galen, Glasgow, No. 1,285, held their spring theatre and supper function on March 12, when a company of 400 went to the first house at the Empire, and afterwards adjourned to the first house at the Empire, and afterwards adjourned to the Grand Hotel, where supper was served. Bro. George Mackay, Master, occupied the chair. After supper a concert was provided by members of the party.

# **Business** Changes

Mr. James Wilson, chemist and druggist, is transferring his business from 4 Middleton Road to the Hart Road Pharmacy, West Hartlepool, on March 25.

Mr. J. M. Cameron, chemist and druggist, Braintree, has acquired the business of Mr. S. D. McQueen, chemist and druggist, Bradford Street, Bocking, as from March 23.

Mr. J. J. Munro, chemist and druggist, 170 Nithsdale Road, Glasgow, has acquired the business of the late Mr. W. S. Galbraith, chemist and druggist, 52 Paisley Road West.

Taylors (Cash Chemists), London, Ltd., have acquired the businesses of Martyns Stores, Ltd., chemists, 26 Queen Street, Wolverhampton, and T. Furness & Sons, chemists, Stephenson Place, Chesterfield.

Mr. George Grave, Ph.C., who for several years has been an active member (and, until recently, secretary) of the Ipswich and Suffolk Branch of the Pharmaceutical Society, has taken over the Leigh Hill Pharmacy, Leighon-Sea.

# Easter Holidays

WE have ascertained that the following wholesale houses will be closed from Thursday evening, March 28, until Tuesday morning, April 2, except where otherwise indicated :-

Allen & Hanburys, Ltd., Bethnal Green, E.2 (urgent orders can be executed at 7 Vere Street, W.1.)
Allen, Stafford, & Sons, Ltd., Cowper Street, E.C.2.
Ayrton, Saunders & Co., Ltd., 34 Hanover Street,

Liverpool Baiss Brothers & Co., Ltd., Grange Works, Bermondsey,

S.E.1 Bell, John, Hills & Lucas, Ltd., Oxford Works, Tower Bridge Road, S.E.1

Berton, Arthur, Ltd., 124-134 City Road, E.C.1 British Drug Houses, Ltd., The, 16-30 Graham Street,

City Road, N.1 Britton, Malcolm & Waymark, Ltd., 38 Southwark Bridge Road, S.E.

Bourjois, A., et Cie, Ltd., 4 Water Lane, E.C. Burge, Warren & Ridgley, Ltd., 91-92 Great Saffron Hill, E.C.1

Burgoyne, Burbidges & Co., Ltd., East Ham, E. Burroughs Wellcome & Co., Snow Hill Buildings, E.C.1 Butler & Crispe, 80-82 Clerkenwell Road, E.C. (Thursday 1.30 p.m.)

day 1.30 p.m.)
Christy, Thomas, & Co., 4, 10 and 12 Old Swan Lane,
E.C.4 (closing 4 p.m. on April 2)
Curling, George, Wyman & Co., 56-59 Bunhill Row, E.C.1
Davenport, J. T., Ltd., Union Street, S.E.1
Edwards, W., & Son, Nile Street, City Road, N.1
Ford, T. H., Ltd., 6 Well Street, Jewin Street, E.C.1
Harker, C. R., Stagg & Morgan, Ltd., Mile End, E.1
Hewlett, C. J., & Son, Ltd., 35-42 Charlotte Street,
E.C.2 (open March 30)
Howards & Sons, Ltd., Uphall Works, Ilford, Essex
Macfarlan, J. F., & Co., 32 Bethnal Green Road, E.
Maw, S., Son & Sons, Ltd., 7-12 Aldersgate Street, E.C.1
May, Roberts & Co., Ltd., 7-13 Clerkenwell Road, E.C.1
Meggeson & Co., Ltd., New Church Street, S.E.16
(Thursday 3 p.m.)
Morson, Thomas, & Son, Ltd., 47 Gray's Inn Road,
W.C.1
Napp, H. R., Ltd., 384 Clement's Inn, Kingsway, W.C.2

Napp, H. R., Ltd., 384 Clement's Inn, Kingsway, W.C.2 (urgent orders can be executed by Rouse & Co., Ltd., 12 Wigmore Street, W.1, and Mr. W. R. Brooke, 19 Gloucester Road, S.W.7)

Newbery, Francis, & Sons, Ltd., 27 and 28 Charterhouse Square, E.C.1

Oppenheimer, Son & Co., Ltd., 179 Queen Victoria Street,

Parke, Davis & Co., 50-54 Beak Street, W.1 Potter & Clarke, Ltd., 60-64 Artillery Lane, E.1

Potter & Clarke, Ltd., 60-64 Artillery Lane, E.1 Reuter, R. J., Company, Ltd., 69 Carter Lane, E.C.4 Schering, Ltd., 3 Lloyd's Avenue, London, E.C.3 (small staff to deal with urgent orders on Saturday, 10-12). Smith, T. & H., Ltd., 25 Christopher Street, E.C.2 Sparks, White & Co., Ltd., Tenter Street, E.1 Stevenson, H. E., & Co., 122 Great Suffolk Street, S.E.1 Stevenson & Howell, Ltd., 95A Southwark Street, S.E.1 Toogood, William, Ltd., 77 Southwark Street, S.E.1 Tyrer, Thomas, & Co., Ltd., Sterling Chemical Works, Stratford, E.15

Stratford, E.15
Winchester Manufacturing Co., Ltd., Isleworth
Wright, Layman & Umney, Ltd., 44-50 Southwark Street,
S.E.1

The offices of The Chemist and Druggist will be closed from Thursday evening, March 28, until Tuesday morning, April 2.

"Synonymous."-" Prior to the meeting of the saniand remarked, 'Bad weather for those who have tuberculosis or consumption, eh, doctor?' The medical man
remarked in an undertone, 'Those terms are roughly
synonymous, you know.' 'Ah,' said the committee man,
'Three corresponding to the meeting of the santtangent of the santseries 'I know some people think they are synonymous—but to my mind, consumption is a jolly sight more synonymous than tuberculosis ever is!' "—" The Morning Post."

# Pharmaceutical Society of Ireland

# Council Meeting

The monthly meeting of the Council was held at 67 Lower Mount Street, Dublin, on March 12, Mr. F. J. Fitzpatrick (president) in the chair. The following members of the Council were also present:—Mr. Denis J. Nugent (vice-president), Dr. Michael Ryan (treasurer), Dr. J. A. Walsh, Dr. J. A. Mitchell, Messrs. John Smith, Patrick Brooke Kelly, J. J. R. Kerr, P. J. Fielding, P. Kieran, P. A. Brady, J. J. Roche, Patrick Liston, Michael J. Kieran, Thomas J. Doyle, P. D. Larkin and James McCormack. Mr. Joseph Gorry and Mr. David Warwick sent apologies for non-attendance.

#### DEATH OF LADY ROBINSON

The President said they were all aware of the death of Lady Robinson. He proposed that they should pass a vote of sympathy with their colleague, Sir Thomas Robinson, in his great sorrow.

The Vice-President said he had heard with deep regret of Lady Robinson's death, and he wished to associate himself with the vote of condolence. He had met Lady Robinson on one occasion at dinner, and he had never met a more charming lady. He felt very deeply with Sir Thomas Robinson in his sad loss.

## The vote of condolence was passed in silence.

#### THE PHARMACY BILL

The registrar submitted a letter, dated March 5, from Mr. W. J. Gilligan, of the Department of Local Government and Public Health, stating that he was directed by the Minister for Local Government and Public Health to refer to the deputation from the Society received by him on January 7, 1929, on the subject of pharmacy legislation, and to inform her that the preliminary steps necessary in connection with the drafting of an appropriate Bill were now being taken. It was not yet possible, however, to say definitely when the draft Bill would be ready.

## PRELIMINARY REGISTRATION

The following, who submitted certificates from other bodies, were admitted to preliminary registration:—Mr. Henry G. Egan, Metcalfe Terrace, Portlavighise; Mr. Michael N. S. Keane, c/o Mr. J. O'Sullivan, L.P.S.I., The Pharmacy, Newcastle West, co. Limerick; and Mr. Wm. Jones, Austinleigh, Western Road, Cork.

#### CHANGES OF ADDRESS

The following notified changes of address: -Dr. D. The following notified changes of address:—Dr. D. Eppel, Ph.C., to 685 Rathdown Street, North Carlton, N.4, Melbourne, Australia; Mr. I. J. Eppel, Ph.C., to c/o The Players' Club, 12 Denham Street, Piccadilly, London; Mr. James Nolan, M.P.S.I., to Mackey's Medical Hall, Quinsboro' Road, Bray, co. Wicklow; Mr. E. J. Sullivan, Ph.C., to c/o Backhouse & Co., Ltd., Dundalk; and Mr. Joseph Walsh, M.P.S.I., to The Medical Hall, 108 O'Connell Street, Limerick.

## REPORTS FROM COMMITTEES

Reports from the Law Committee and the House Committee were received and adopted.

#### DEATH REPORTED

The registrar reported the death of Mr. D. Manson, R.D., late of Peter's Hill, Belfast.

#### RE-ELECTION OF EXAMINER

On the motion of the Vice-President, seconded by Mr. McCormack, Mr. M. V. Sargent, M.P.S.I., was re-elected as examiner for the Pharmaceutical Assistant examination for the ensuing year.

#### ERASURE FROM THE REGISTER

The registrar was given authority to remove from the register the names of the following, who had failed to answer registered letters sent on May 17, 1928, and November 27, 1928:—Mr. Lionel Firth, R.D., 35 Bridge Street, Belfast; Mr. Thomas Kennedy, R.D., 4 Ormean Avenue, Belfast; Mr. William Gardiner, R.D., 64 York Road, Belfast; Mr. Thomas A. Kirkwood, R.D., 9 Royal Avenue, Belfast Avenue, Belfast.

#### ELECTION AND NOMINATIONS

On the motion of the President, seconded by the Vice-President, Mr. J. A. Doyle, Ph.C., Henry Street, Kilrush, co. Clare, was elected to membership.

The following were nominated for membership:—Miss Annie L. Connolly, Ph.C., The Medical Hall, Rock Buildings, Strand Road, Derry; Mr. Patrick F. McGrath, Ph.C., The Pharmacy, Oxmantown Road, Dublin; Mr. John J. McGlynn, Ph.C., North Circular Road, Dublin.

# Thoughts on a Letter

A letter in a recent issue of The Chemist and Druggist A letter in a recent issue of The Chemist and Druggist begins by saying that for some months past there has been a periodical call for a leader, and later on states that "we have plenty of leaders"; so obviously those who have been calling for leaders have either been calling for what they already have, or have failed to recognise leadership in those posturing in that position. No wonder they have failed to recognise leadership; it does not exist in pharmacy. Our so-called leaders amiably occupy public positions, are "good fellows," and very popular; but the one thing they most emphatically do not do is—lead. They are far more concerned with popularity than progress, a vicious concern that affects

do not do is—lead. They are far more concerned with popularity than progress, a vicious concern that affects our public life in all directions. "Lean back on the crowd" appears to be their motto, and they live up to it. Now whither do chemists wish to be led? To the goal of being paid in full for their N.H.I. work; to relief from the D.D.A. for another (strict interpretation of title, "Antagonising Dismal Desmonds"); to relief from unreadable prescriptions for a third; to relief from proposeurious such as that magnesium oxide frame. unjust prosecutions such as that magnesium oxide frame-up; and getting your dispensing tested by higher standard weights and measures than we are authorised standard weights and measures than we are authorised to use, for a fourth; and so forth (horrible pun). With regard to the first, I have more than once pointed out the way. Here it is again. Statistics prove that the trouble in the N.H.I. financial world is due to overdosing, which is largely due to the inaccurately marked bottles (which act as an incentive to the patient to drink from the bottle), and to the hopelessly inaccurate overlam of labelling medicine, whereby the patient is system of labelling medicine, whereby the patient is definitely instructed to take anything from 50 per cent. to 100 per cent. more than the doctor orders. And our

to 100 per cent. more than the doctor orders. And our so-called leaders appear so deficient in common-sense, and so little concerned with the simple principle of accuracy, that they will not take the simple step of altering the system of labelling medicines from spoons to drachms, even when it is solely in their power to do it.

Regarding the "Dismal Desmond Act," why do not the Pharmaceutical Society's Council and Retail Pharmacists' Union combined approach the Ministry of Health and say: "Wipe out these foolish, petty regulations; leave it to the chemists' sense and integrity to administer the spirit of the Act, instead of the mere letter; to avoid everything that would foster the dope habit; with one single penalty, that those who exhibit neither sense nor integrity shall lose their right to practise. I contend that such an agreement would do more in the desired direction than all the irritating regulations in force.

As regards point three, chemists can re-establish their

As regards point three, chemists can re-establish their position by refusing to dispense prescriptions they cannot read. By "read," I mean read and not guess, for if a chemist cannot clearly determine the letters of which a word is composed, he cannot be said to read it. This is a case in which The Pharmaceutical Society might

is a case in which The Pharmaceutical Society might lead. They should at once remove from the curriculum the ambiguous prescription tests, and show that they will no longer stand infants' class writing from doctors. Chemists can back them up by doing as I suggest.

Then with frame-up tests like magnesium oxide, the magistrates should be plainly told by the defence that if they impose a penalty, they will be acting unjustly, because there is no prejudice to the patient. Besides, if we dispense with a bucket and a shovel, obviously we are going to be wrong if the analyst tests our dispensing with small weights and measures. Our case is prejudiced from the start. Finally, the epidemic has arrived, and all hopes of getting paid in full for N.H.I. for this year are "goin," as I anticipated. No one but infants had thought otherwise.—George F. Corrall,

# General Medical Council

THE Executive Committee and the Dental Executive Committee of the General Medical Council met at 44 Hallam Street, London, W.1, recently, Sir Donald MacAlister in the chair.

#### DENTAL BUSINESS

The principal item on the agenda of the Dental Executive Committee was the consideration of a draft scheme, submitted by the British Dental Association, for the institution of a qualification in public dentistry. It was resolved that no sufficient case had been established

for the course proposed.

Sir Humphry Rolleston having been nominated to act
on behalf of the Council on the Dangerous Drugs Act Tribunal for dentists, it was resolved that, subject to their acceptance, Mr. Norman Bennett, or alternatively Mr. Evelyn Sprawson, be appointed for England in the place of Sir Humphry Rolleston, and that Mr. J. H. Gibbs be appointed for Scotland. The accounts of the Dental Board for the year 1928 were approved.

#### RESTORATIONS

The registrar reported that the names of the undermentioned persons had been restored to the Medical Register :-

Goldsmith, Henry
Johnson, Emily E.
Langley, Doris M.
Milhard, Peter McD. (S).
Nichol, Robert (S).

O'Hara, William E. Parbury, Frederic D. Robinson, George S. Sanderson, John M. Wallace, Daisy C. Wilson, Thomas

## Poisons and Pharmacy Act, 1908

A communication from the Privy Council was read, submitting for the observations of the Council the follow-ing draft resolutions of the Pharmaceutical Society of

Great Britain:—
That by virtue and in exercise of the powers vested in the Council of the Pharmaceutical Society of Great Britain, the said Council doth hereby resolve and declare that the Schedule to the Poisons and Pharmacy Act, 1903, ought to be amended in manner following, that is to say:—

1. By adding to the entry relating to Cannabis in Part I of the Schedule the words:—

"And (a) all preparations of or containing Cannabis, or the or containing its resins except preparations contain.

(b) of or containing its resins except preparations containing Tincture or Extract of Indian Hemp B.P."
2. By omitting from Part I of the said Schedule the

words: "Coca, any preparation or admixture of, containing 0.1

coca, any preparation or admixture of, containing 0.1 or more per cent. of coca alkaloids."

And by substituting therefor the words:—
"Coca leaves: the alkaloids of coca and their salts; and any preparation, admixture, extract or other substance containing not less than 0.1 per cent. of the alkaloids of coca and of their salts."

3 By adding to Pert I of the said Schedule.

3. By adding to Part I of the said Schedule:—
"Benzoyl morphine, and any preparation, admixture or
extract containing benzoyl morphine.
"Dihydro-oxycodeinone, dihydrocodeinone, their salts and
any preparation, admixture or extract containing dihydrooxycodeinone or dihydrocodeinone."

4. By omitting from Part I of the said Schedule the

words:—
"Diamorphine (also known as Heroin) and all preparations or admixtures containing 0.1 per cent, of Diamor-

And by substituting therefor the words:—
"Diacetylmorphine (commonly known as Diamorphine or Heroin) and its salts and any preparation, admixture, extract or other substance containing any proportion of Diacetylmorphine."

Diacetylmorphine."

5. In the entry relating to Carbolic Acid in Part II of the said Schedule by omitting the description:—

"Carbolic Acid, and liquid preparations of carbolic acid and its homologues, containing more than 3 per cent. of those substances, except preparations for use as sheep wash or for any other purpose in connection with agriculture or horticulture, contained in a closed vessel distinctly labelled with the words 'poisonous,' the name and address of the seller, and a notice of the special purposes for which the preparations are intended."

And by substituting therefor the description:—

And by substituting therefor the description:—
"Carbolic Acid and preparations of carbolic acid or its homologues containing more than 3 per cent. of those sub-

stances except-

(1) solid preparations other than preparations for solution or suspension before use, but including soaps, toothpastes and toothpowders.

(2) preparations for use as sheep wash or for any other purpose in connection with agriculture or horticulture, contained in a closed vessel distinctly labelled with the word 'Poisonous,' the name and address of the seller, and a notice of the special purposes for which the preparations are intended."

It was explained that Amendment 5 brings into Part II of the Schedule solid lysol tablets containing 15 per cent. The Executive Committee resolved to inform the Privy Council that it had no objection to the proposed changes.

#### OTHER BUSINESS

A copy of a Bill to amend the Pharmacy Act, 1891, of South Australia was received.—The registrar reported that the number of copies of the office edition of the new Medical Register sold amounted to 251.

# Westminster Wisdom

Notes on Parliamentary Matters

## MANUFACTURE OF SPIRIT

Replying to Mr. Tomlinson on March 13, Mr. Samuel gave the following figures as representing the quantities of various materials used in distilling in Great Britain and Northern Ireland during the year ended September 30, 1928 :--

	Mater	ials u	sed			Cwt.
Malt						 1,850,956
Unmalte	d gra	ain		• • •		 1,884,546
Rice			•••	•••	•••	 11,470
Molasses		•••	; ***	•••	•••	 1,754,793
Pea mea						 288
Spirits of	distille	ed (pi	oof ga	allons)		 33,540,386

#### Administration of Potent Drugs by Nurses

Sir Robert Thomas, on March 20, asked the Minister of Health if he would state whether hospital probationers are entitled to administer powerful drugs, such as digitalin and morphia, in the absence of a qualified medical practitioner; and who is held responsible in the event of the death of a patient as a result of a mistake on the part of a probationer?

Mr. Chamberlain replied: The answer to the first part of the question is that while the administration of drugs within the scope of the Dangerous Drugs Acts is subject to special restrictions, the responsibility for administration with the moderal practitions, in charge in charge in charge in the moderal practitions in charge in the moderal practitions. ministration rests with the medical practitioner in charge of the case. I cannot undertake to pronounce the general terms upon the issue raised by the second part of the question, which must turn upon the view taken of particular facts.

#### CHLORODYNE

Viscountess Astor asked the Home Secretary, on March 13, whether he is aware that fresh evidence as to the use of chlorodyne as a drug of addiction has come to light since the Departmental Committee on morphine and heroin addiction reported in 1926; whether, in view of the consequences of the abuse of this drug by persons being able to obtain unlimited quantities by purchase from several chemists at the same time and in the same town, he will bring the preparation within the scope of the Dangerous Drugs Acts; and, failing this action, whether he proposes at an early date to carry out Recommendation 103 (2), which would secure that no preparation could be sold under the name of chlorodyne which

contains more than 0.1 per cent. of morphine?

Sir W. Joynson-Hicks: The recommendation of the Rolleston Committee has been under consideration, but legislation would be required in order to give effect to it. No opportunity for this has so far occurred, but the matter has not been lost sight of, and it is noted for consideration in connection with the general question of the revision of the Pharmacy Acts which has been under investigation by a Departmental Committee. I may add that the evidence before the Home Office does not show that the abuse of chlorodyne has been increasing since the Rolleston Committee reported.

# Legal Reports

Action Cyer a Lease.—At Worcester County Court, recently, Mr. William H. Taylor, chemist and druggist, The Tything, sued Mr. Arthur T. Saunder, chemist and druggist, Rainbow Hill, to recover the sum of £11 10s. Mr. E. C. Harrison appeared for the plaintiff, and Mr. H. R. Johnston for the defendant. Mr. Harrison explained that the case arose out of a covenant contained in a lease from the defendant to William Hodson and George E. Baldry, dated July 8, 1922, of a shop and premises for twenty-one years from July 1, 1922, which lease was on June 3, 1926, assigned by Messrs. Hodson and Baldry to the plaintiff. The defendant covenanted (a) to keep the outside of the premises, walls and roofs and other exterior parts, including the drains and sewers, in good repair; (b) to paint or grain and varnish all the external wood and ironwork of the premises in the year 1925 and in every third year of the remaining term. Mr. Harrison said that defendant refused or neglected to do the painting, and in consequence the plaintiff caused the work to be done. The cost of the work was the amount claimed. The defendant said he had just been getting out tenders for the work when it was done. He agreed to pay the £11 10s, to the plaintiff. Judgment was given for the defendant, with costs.

Food and Drugs (Adulteration) Act.—At the Mansion House Justice Room, London, on March 20, before the Lord Mayor, Robins & Co. (Chemists), Ltd., Broadway, Ludgate Hill, E.C., were summoned for selling a compounded drug, namely a prescription, which was not composed of ingredients in accordance with the demands of the purchaser, being deficient in quinine sulphate to the extent of 33 per cent. of the amount prescribed. Mr. H. Glyn-Jones, barrister, pleaded "Guilty" on behalf of the company. Mr. W. N. Earle, prosecuting, said that the prescription was for a sedative and tonic medicine. Mr. Glyn-Jones remarked that all he could say was, "Somebody made a mistake," probably using a scruple instead of the proper weight. For thirty-one years this company had been carrying on business in the City without complaint, yet for this one error they were brought to a police court and were liable to a penalty of £20. He suggested it was a summons that might be dismissed on payment of costs. The Lord Mayor: Is it not obvious that the heavy penalty is because the offence is not one against property, but against health? A dispensing mistake is a terrible mistake. Suppose poison was substituted for tonio in a medicine—it might result in the death of the patient. He (the Lord Mayor) must fine the defendant company £3 3s., with £2 2s. costs.

# New Companies and Company News

P.C. means Private Company and R.O. Registered Office.

British Pumice Co., Ltd. (P.C.).—Capital £2,000. Objects: To acquire the rights and agreements which L. H. Barnes may hold for the importation of pumice, etc. The subscribers are J. S. Lee and A. G. Lazarus. R.O.: 1 Victoria Street, S.W.1.

London Pharmaceutical D. & P. Service, Ltd. (P.C.).

—Capital £ 000. Objects: To carry on the business of plotographers, photographic artists, etc. The directors are J. H. Bailey, Clifton Lodge, St. John's Park Road, Blackheath, S.E., J. C. Hall, and C. W. Rogers.

ULTRA RAYOR, LTD. (P.C.).—Capital £100. Objects: To acquire patents relating to the cure of colds, hay fever and other similar illnesses by means of ultra-violet rays or by any similar method, etc. The subscribers are Marjorie Gidley and L. J. Kendrick. R.O.: 16 St. Helen's Place, E.C.3.

Pomona Soap Co., Ltd. (P.C.).—Capital £100. Objects: To acquire the business of Pomona soap manufacturers, together with the trade mark "Pomona," classes 47 and 48, and to adopt an agreement with C. C. Goodwin. The directors C. C. Goodwin and W. Pyne. R.O.: 5 Hereford Street, Salford.

British Felspar, Ltd. (P.C.).—Capital £2,500. Objects: To carry on the business of artistic and commercial cellulose spraying, to manufacture articles suitable to be sprayed, etc. The permanent directors are H. J. Terry, Capt. F. N. H. Nias, and H. J. Terry. R.O.: 159 Queen Victoria Street, E.C.4.

East Indies Oil Seeds Co., Ltd. (P.C.).—Capital £2,000. Objects: To adopt an agreement with the Oilseeds Baling Co., Ltd., and to carry on the business of merchants, importers, exporters, brokers, forwarding agents, warehousemen, etc. The directors are W. C. Amcotts and H. L. Carter. R.O.: 84 Leadenhall Street, E.C.

AGRICOL SYNDICATE, LTD. (P.C.).—Capital £10,000. Objects: To carry on the business of manufacturers of insecticides and other chemical substances, compounds and preparations, etc., and to adopt an agreement with G. Arnold and British Industrial Securities, Ltd. The directors are W. H. Mackenzie, R. S. Bagnall and A. R. J. Davenport. R.O.: Carlton House, Regent Street, W.1.

BOOTH'S VITAPLEX, LTD. (P.C.). — Capital £500. Objects: To adopt an agreement with F. O. Booth, to acquire the trade mark "Vitaplex" relating to medicines and medicinal oils for human use, and to carry on the business of manufacturing chemists, patent medicine proprietors, etc. The first directors are F. O. Booth and O. Booth. R.O.: 329 Hyde Road, Gorton, Manchester.

International Sponge Importers, Ltd.—The net profit for 1928 is £4,578. With £226 brought in and less £3,750 in payment of half-year's Preference dividend to June 30, 1928, £1,054 remains to be carried forward, the final dividend on the Preference shares being passed.

Magadi Soda.—The directors have decided to pay a dividend at the rate of 6 per cent. per annum on the first and second cumulative preference shares for the year 1927 and 1928, as well as a dividend of 12½ per cent. on the preferred ordinary for 1928. With the exception of a dividend of 0.768 per cent. paid in June 1927 on the first preference in respect of the year 1925, the above distributions are the first paid on any class of share. The company was reconstructed in 1924.

Imperial Chemical Industries, Ltd.—The profit for 1928 amounts to £5,488,243, an increase on 1927 of £921,018. With £82,680 brought forward from 1927, the total profit available is £5,570,923. Out of this sum the directors have decided to transfer £1,000,000 to general reserves, £275,540 to income tax, and to carry forward £109,633, leaving £4,185,750 available for distribution. After providing £1,194,550 for the dividend on the preference shares, there remains £2,991,200 for the ordinary and deferred shareholders. An interim dividend of 5 per cent. on the ordinary shares was paid on December 1, 1928. The directors have, therefore, decided to recommend a final dividend on the ordinary shares of 5 per cent. (actual), making 8 per cent, for the year, and a dividend on the deferred shares of 1\frac{3}{4} per cent. (actual), both less tax at the standard rate for the year 1929-1930, payable on June 1, 1929.

The British Drug Houses, Ltd.—The report for the year ended December 31, 1928, states that the trading profit amounted to £80,306 7s. 9d., from which is deducted amortisation of leaseholds and depreciation of plant, etc., directors' fees and income tax, as shown in the profit-and-loss account, £17,933 14s., leaving a balance of £62,372 13s. 9d., to which is added the amount brought forward from the previous year (£7,751 1s. 7d.), making a total of £70,123 15s. 4d. After deducting from this total the gross dividend on the preference share capital for the year ended December 31, 1928, amounting to (paid less income tax) £12,100, there remains a balance of £58,023 15s. 4d., which the directors recommend should be allocated as follows:—Dividend of 8 per cent. on the ordinary shares (gross), £32,000; transfer to general reserve, £15,000; leaving to be carried forward, £11,023 15s. 4d. The directors are glad to report that the trading results for 1928, both in turnover and in profit, show a satisfactory advance upon the previous year. There has been considerable

growth in the company's export trade generally, with notable recovery in certain South American markets. The increasing recognition, by both the medical profession and the public, of the excellence of the B.D.H. medical and scientific products, continues to be a noteworthy feature of the company's activities.

March 23, 1929

## Bankruptcy Reports

Re William Lough Dees, "Amil" Mills, Feethams, Darlington, Durham, lately "Lough Dees" Mills, Crox-dale, near Durham, chemical merchant and manufacturer.—The public examination was to have been held on February 28 at the Court House, Bridge Road, Stockton-on-Tees, but on the application of the Official Receiver the examination was adjourned.

Re Herbert Grace Crabtree, 6 Higher Tunshill, Milnrow, Lancs, chemist and druggist.—The application for discharge was heard on March 15 at the County Police Court, Buckley Place, Rochdale, when it was stated that Court, Buckley Place, Rochdale, when it was stated that the debtor had voluntarily been paying money into court at the rate of £100 a year in reduction of his debts. His honour stated that £100 a year was a substantial amount for the debtor to be paying towards the reduction of his debts, and he would make an order for the payments to continue until further notice. The discharge was granted subject to a suspension of three charge was granted subject to a suspension of three months.

# Wills

Mr. A. Fallding, of 21 Barton Crescent, Dawlish, retired chemist and druggist, formerly carrying on business in Langsett Road, Sheffield, left £2,501 gross, with £1,774 net personalty.

Mr. John Beard Mix, of High Street, Billericay, Essex, chemist and druggist, who died on November 7 last, aged 81 years, left estate of the gross value of £5,440 8s. 1d., with net personalty £4,335 8s. 11d.

Mr. John Robertson Lauder of 179 West George Street, Glasgow, and Burnbank Gardens, Glasgow, chemical merchant, who died on November 10 last, left personal estate in Great Britain valued at £16,300 4s. 8d.

Mr. Charles Underwood Jenner, of Summerheath Road, Hailsham, Sussex, retired chemist and druggist, who died on November 13 last, aged 96 years, left estate of the gross value of £1,562 11s., with net personalty £73 8s

Mr. Walter Gower, of Kentucky House, Anglesey Road, Ipswich, Suffolk, lately head of Gower & Hunt, soap manufacturers, who died on January 12 last, left estate of the gross value of £4,567 16s. 2d., with net personalty £3,610 4s. 11d.

Mr. Henry Crompton, of 469 Walmersley Road, Bury, Lancs., and formerly of Parkhills Road, Bury, retired chemist and druggist, who died on December 31 last, aged 70 years, left estate of the gross value of £4,886 7s. 9d., with net personalty £4,852 18s. 2d.

MR. FREDERICK TUNBRIDGE, of 39 Castle Street, Reading, chemist and druggist, managing director of Dr. Mackenzie's Laboratories, Ltd., a pioneer in the manufacture of sticky fly-papers, left estate of the gross value of £16,284 5s. 6d., with net personalty £12,509 5s. 3d.

# Gazette

# . Bankruptcy Acts

RECEIVING ORDER AND ADJUDICATION

Pendleton, J. W. W. L., "The Shrubberies," Anderby, near Alford, and Roman Bank, Skegness, Lincoln-shire, and previously at 81 Lumley Road, Skegness,

SPA TREATMENT.—The March issue of "The Prescriber" is devoted to illustrated articles, by Dr. R. Fortescue
Fox and other experts, on spa treatment. A descriptive list of spas is appended.

# Insurance Act Dispensing

Record of matters concerning Chemists' interests in the National Health Insurance Acts

## Local Reports

#### ENGLAND AND WALES

Nottinghamshire.—At a meeting of the Insurance Committee, held on March 11, the Pharmaceutical Service Subcommittee reported that thirteen samples of medicines and three of appliances had been tested. In one case the following inaccuracies were disclosed, according to the analyst's certificate: - Excess of 15 per cent. of liq. arsenicalis, of 42.6 per cent. of pot. iodid., and of 21.9 per cent. of mag. sulph. A mixture of the volume of 8 oz. was ordered, but—the bottle actually contained only 7.18 fl. oz. The percentage errors in the ingredients were calculated on the percentage excess or deficiency in the strength of the liquid, assuming that the volume of the mixture dispensed was exactly the same as that ordered. In this case the actual percentage errors in dispensing were as follows:—Liq. arsenicalis, 3.3; pot. iodid., 23; mag. sulph., 9.3. The second portion of the sample had, in accordance with the request of the chemist concerned, been submitted to the analyst of the Retail Pharmacists' Union, whose certificate confirmed the results of the Committee's analyst. The chemist stated that he had taken up the question of the inaccurate bottle with the wholesale house, who informed him that the bottle was a hand-made one, and that such bottles were more liable to variation than machine-made bottles. He had his dispensing scales and weight tested, and found that they were inaccurate. He expressed his sincere regret at the inaccuracies. The expressed his sincere regret at the inaccuracies. The Subcommittee recommended that the Minister of Health be recommended to withhold the sum of 10s., a like amount being recovered from the chemist. A complaint was received by the Committee from an Insurance pracwas received by the Committee from an Insurance practitioner that insured persons were unable to obtain drugs and appliances promptly at one shop. On January 10 one insured person who presented a prescription for ointment on January 7 had not received it, and in another case an insured person had not received boric lint ordered on January 1, while only half the quantity of an ointment prescribed had been supplied. The business concerned was owned by a limited company, with a qualified pharmacist as manager. The clerk to the with a qualified pharmacist as manager. The clerk to the Committee interviewed the manager of the shop on January 24, when he found that certain drugs were not in stock (e.g., vin. ipecac., tinct. scillæ), while the stock of pot. brom. and bismuth. carb. was reduced to 13 oz. and 1 drachm respectively. The majority of the appliances in the list prescribed in the Medical Benefit Regulations were not in stock. In reply to a communication addressed by the Committee to the company, a letter was received stating that the manager had not given satisfaction and that his employment with the company had been terminated. On February 20 a further communication the shop was closed. The shop was again visited by the clerk to the Committee on February 22, when it was found that a new manager was in charge. In response to another communication, a reply was received stating that the managing director was personally in attendance on February 19 and 20, but that it was desired that the name of the company should be removed from the Committee's list of persons and firms supplying drugs and appliances. The managing director was not a pharmacist. A further complaint was received from the practitioner that insured persons were unable to obtain on March 5 ointment, gauze, wool, bandage, and lotio plumbi cum opio. In view of the fact that the company had tendered their resignation, the Subcommittee recommended the Insurance Committee to accept the company's resignation, and to request the Minister of Health to withhold the sum of £10, a like amount being recovered from the chemists.

West Riding.—At a meeting of the West Riding Insurance Committee, on January 31, three chemists were reported for errors in dispensing. All three were warned to take greater care; one was fined £2 and another £1.

# Pharmaceutical Society of Northern Ireland

Council Meeting

The monthly meeting of the Council was held on March 15, the President (Mr. W. J. Hardy) in the chair. There were present also Messrs. Fred Storey, H. Todd, A. C. McBride, John Maxwell, W. S. Taylor, James Dundee, W. Martin, R. I. Edwards, Samuel Gibson, J. E. Connor, H. McRoberts, S. S. Badger, W. E. Wilson, J. F. Grimes, and Professor Small. Apologies for absence, were precised from Dr. S. F. A. gies for absence were received from Dr. S. E. A. Acheson and Mr. H. Lancashire. Mr. D. L. Kirkpatrick, secretary, was in attendance.

#### EDUCATION COMMITTEE

The Education Committee's report contained the following recommendations :-

That the examinations be held in the week beginning

That the examinations be held in the week beginning July 1, 1929.
That the following, who submitted certificates from other bodies, be granted certificates of apprenticeship to pharmaceutical chemists:—Alexander King (Queen's University), matriculation; Miss W. Trimble, Royal College of Surgeons entrance examination.
That a copy of the solicitor's letter regarding the acceptance of other examinations by the Council be given to the representative on the Council from the Queen's University. That advertisements be issued for four examiners to conduct the next examinations.

duet the next examinations.

The Secretary explained that the last-named decision The Secretary explained that the last-named decision had been carried as an amendment to a proposal that the old examiners again act. The solicitors' letter referred to stated that they were of opinion that Section 5, subsection 3 of the Pharmacy and Poisons Act (Northern Ireland), 1925, was purely discretionary and not mandatory, and they could not see how the words "may also recognise" could be construed "shall also recognise." That being so, provided the Council were satisfied, they thought that the two examinations mentioned could be added to the list set out in Appendix 1 tioned could be added to the list set out in Appendix 1 (a), B.4. of their Regulations under Schedule 2, Part 5, of the Act without the sanction of anyone.

Mr. Dundee moved and Mr. Storey seconded the adoption of the minutes.

Mr. Hardy said the question as to recognition had

been raised when recognition was asked for Trinity College, Dublin, and Magee College, Derry. If the solicitors were correct, Professor Small's view that the examinations must first be submitted to Queen's University was wrong.

Professor SMALL suggested they should go carefully.

He thought the Home Office was of a different opinion.
The PRESIDENT said he had not consulted the Home

Office.

Mr. Todd said in the early days of the Society the registrar was of opinion that they had to submit the examinations to Queen's University. There was a difference of opinion between two solicitors in the reading of the Act of Parliament. While not opposing the decision regarding the examiners, he did not see why they should change now.

Mr. McBride thought it would be unwise to interfere with the examiners in this transition period. They would get no better examiners by advertising. The interests of the Society could best be served by leaving the examiners as they were for this year.

Mr. Connor said it would be a mistake at that juncture to be in the server of the server o

to bring in men who had not experience. They could, doubtless, get cheaper men, but was that the best thing for the Society?

Mr. Storex denied they were out for cheap examiners.

Mr. Storex denied they were out for cheap examiners. The present examiners could apply and might be reappointed. They should advertise to let the people see they were trying to get the best men. There was no suggestion about reduction of fees.

Mr. Taxlor doubted if they would get applicants if there were only two or three candidates.

Professor SMALL said if there were two students the examiners would get one guinea each. There should be a minimum of five guineas.

Mr. Edwards thought they were bound to have candidates for examinations. There was quite a number of

young men and women coming forward, as the classes were well attended.

The PRESIDENT said it was a mistake for a young

Society like theirs to change frequently.

Mr. Dundee believed they ought to advertise.

Mr. Grimes was also in favour of advertising. was, he said, a certain amount of dissatisfaction over the number of rejected candidates: six out of seven were rejected on the last occasion.

Mr. Todd said that in the Dublin Society last time

nineteen out of twenty candidates failed.

An amendment that the reference in the minutes to advertising be deleted, and the four old examiners re-appointed was defeated by a large majority, and the minutes were adopted, including the decision to adver-tise. It was further resolved that the fees be the same as last year, with a minimum of five guineas.

#### Poison-Licences

The President referred to the question of the unrestricted granting of licences by County Councils for the sale of agricultural and horticultural poisons, and asked whether any reply had been received from the Home Office to the Council's protest.

The secretary answered in the negative.

Mr. McBenne said that the negative of outside received.

Mr. McBride said that the number of outside people receiving these licences was disgraceful. The Government had power to prevent it and did not do it. If they did not do so, the Council would have to take a strong course. They were not going to sit there and be made the laughing state of the counting made the laughing-stock of the country.

Mr. Connor remarked that the licences were being

granted indiscriminately, and questions were being asked why the Government allowed it.

Mr. BADGER said the County Councils only laughed at the Society and went on as they were doing.

Mr. Storey thought a great number of the licences

were cancelled.

Mr. McBride: They have been all renewed.
After further discussion the President suggested they should take the matter up with the Home Office again.

#### Belfast Municipal College

The question of the facilities for students in the Belfast Municipal College of Technology was referred Municipal College of Technology was referred to by the President, who said that the authorities intended to have two additional day classes in pharmacy and practical pharmacy after Easter, one on Wednesday by Mr. C. J. Still, and the other on Thursday by Mr. T. Harper. This was considered satisfactory.

## MEMBERS ELECTED

Mr. J. J. G. Watson. Ardstraw, co. Tyrone, and Mr. Thomas J. Moffet, 350 Beersbridge Road, Belfast, were elected members of the Society.

# Shellac Research

REPORTS of the committee of the Indian Lac Association for research, were recently issued and embraced a résumé by the Director of the Research Institute at Nankun for the year ending March 31, 1928. ("Bulletin of the Imperial Institute," No. 4, 1928). The report indicates that the rapid progress in the manufacture of cellulose lacquers and other shelles substitutes in England and America is and other shellac substitutes in England and America is causing alarm, but a new centre for research has been established at the Polytechnie Institute, New York. It is realised that if it were not for the phenomenal demand for gramaphone records the competition from synthetic substitutes in the paint and varnish trades would have damaged the shellac industry. Valuable research work has been carried out in the Entomological Section, and many insects have been studied in detail. Further control methods have been suggested for combating pests.

COMPANY REGISTRATION STATISTICS.—The annual review by Jordan & Sons on company registration during the year 1928 shows 838 public companies with total capital of £152,785,338, and 9,012 private companies with capital of £220,506,126. In 1927, 569 public companies were registered with capital of £121,128,619, and 8,399 private companies with £173,162,271 capital.

# **Festivities**

#### Birkenhead Dinner

THE Birkenhead and Wirral Branch of the Pharmaceutical Society met on March 14 at the Woodside Hotel. tical Society met on March 14 at the Woodside Hotel. About twenty-five members were present and partook of an excellent dinner. The chairman (Mr. F. C. Cooling) proposed the toast of "The Society," giving a brief résumé of its work. Mr. H. N. Linstead (secretary and registrar), responding, said the Society was made up of three classes of people—pessimists, optimists and others. Seven or eight years ago it was mooted by the pessimist that the Society would never attain a membership of 10,000, but to-day it was a pleasure to record a membership exceeding 14,000. It was not the annual subscription that was wanted, so much as the support and cooperation of each member. The committee of the R.P.U. were to be complimented on the success they had made in taking over the drug fund and paying 104 per cent. in taking over the drug fund and paying 104 per cent. last year. Mr. Linstead said there was sure to be consolidation of the Pharmacy Acts, but he was certain that more good than bad would accrue from any Bill that was passed. Regarding was expectations if years of the passed that the same said the same and the same said the same and the same said the same and the same said the passed. Regarding prosecutions, it was unfortunate that certain laws prevented them from making these public, certain laws prevented them from making these public, but strict attention was being given to the inspection of shops, a staff of seven inspectors being engaged, full time, for this purpose. Regarding representation in Parliament, there were six candidates standing at the next election, and this had been made possible by the fund so generously subscribed by the members. In closing, Mr. Linstead said the strength of the Society lay in the rank and file, and urged more support for the conferences and branch meetings. Mr. A. Elder proposed "Our Guests," to which Mr. F. A. Lawman and Mr. J. Wallbridge (president of Liverpool Branch) responded. Musical numbers alternated with the speeches. The singing of "Auld Lang Syne" brought the proceedings to a close. the proceedings to a close.

#### Bedford Annual Dinner

The sixth annual dinner of the Bedfordshire Branch of the Pharmaceutical Society was held at the Dujon Restaurant on March 13, a large company assembling, under the chairmanship of Mr. Walter White. Others present included Mr. Herbert Skinner (president of the Society), Councillor J. H. Webb, Mr. A. W. Morgan, Mr. E. M. Carruthers, Mr. H. E. Chapman, Mr. J. E. French, Mr. T. Marns, Mr. C. R. Derbyshire (clerk to the local Insurance Committee), Dr. Stanbury Phillips, and Mr. Noble (secretary of the Branch). Councillor Webb humorously proposed "The Pharmaceutical Society." Referring to Mr. Skinner, the speaker said that it was the first time they had had the Society's president with them at their annual dinner. Some of them could look back upon a long line of illustrious presidents, but he ventured to say that they had never presidents, but he ventured to say that they had never one who had devoted more anxious care, zealous work, presidents, but he ventured to say that they had never one who had devoted more anxious care, zealous work, and generally more attention to the welfare of the Society than Mr. Skinner. In the course of his reply, Mr. Skinner remarked that the Council had given thought for a long period to the Inter-Departmental Report, and it was wearying; until the cloud broke he could not rest. Something had got to happen, and in the happening they would have to be determined that pharmacy as a craft was not going to suffer. The Council asked for nothing in return for what they were working in the interests of pharmacy in this country. Proposing the toast of "The Retail Pharmacists' Union," Mr. A. W. Morgan said that they, as retail pharmacists, must look to the R.P.U. for guidance in many things. It was a fine organisation. Mr. French, replying, said that he had been to a good many places, and the experience had taught him that pharmacy was a united calling. The R.P.U. was ready to act as sergeant-major to the Pharmaceutical Society in the great fight that was likely to come when the Inter-Departmental Committee made their decisions. In submitting "The Chairman and Local Branch," Mr. H. E. Chapman voiced his appreciation of the valuable help and influence he had received in his apprenticashin days Chapman voiced his appreciation of the valuable help and influence he had received in his apprenticeship days from Mr. White. Bedfordshire was a scattered county,

and it was a tribute to the work of the organisation that such a successful function was possible. Mr. that such a successful function was possible. Mr. White, in response, said that they were a very happy family in Bedfordshire. "The Ladies and Visitors' was submitted by Mr. E. M. Carruthers. Miss E. L. Webb responded in an eloquent speech on behalf of the ladies. Mr. T. Marns responded for the visitors. Mr. Noble (secretary) was accorded musical honours for the work he had done for the branch. During the evening the chairman handed to Mr. Skinner a cheque for £6 3s. for the Benevolent Fund. The speeches were interspersed with a musical programme.

# Institute of Ophthalmic Opticians Dinner

THE twenty-fourth anniversary dinner and dance of the Institute of Ophthalmic Opticians was held on March 14 at the Café Royal, 68 Regent Street, London, the Institute March 14 at the Café Royal, 68 Regent Street, London, W.1. Mr. R. Roberts (chairman) presided, and others present included Mr. Owen Aves, Mr. W. H. Champness, D.L., C.C. (clerk to the Worshipful Company of Spectacle Makers), Mr. G. W. Colebrook, Dr. Max Coque, Dr. H. G. Critchley, Mr. H. H. Emsley, Dr. J. Forrest, Mr. F. T. Gregg (secretary), Mr. F. S. Horsey, Mr. J. H. Sutcliffe, O.B.E., Mr. A. Upson, J.P., and Mr. J. Harcombe Cuff (editor of "The Refractionist"), who acted as toastmaster. The number present was about 170. Mr. W. J. Womersley, M.P., in proposing the toast of "The Institute," said that its objects were known, and there were a number of things he would the toast of "The Institute," said that its objects were known, and there were a number of things he would like to say about them. The objects were the improvement of the profession and the inculcation into the minds of its members of higher ideals of public service and professional standing. These were its guiding lines, It had realised the advantage of organisation, and if traders would realise this also it would be better for trade. The opticians had learnt their lesson. The membership of the Institute in 1919 was 926; to-day it was 2,193, and he congratulated them on the increase in members and congratulated the officials. They had in members and congratulated the officials. They had co-operated with other organisations, and this would be a benefit when they approached Parliament. Members of Parliament and Ministers of State took more notice of organised bodies than individuals. He was pleased of organised bodies than individuals. He was pleased to note the wonderful work in connection with the Refraction Hospital, which was an aid to the poor and to the students. Mr. R. Roberts returned thanks for the toast, and particularly for the kind remarks made regarding the Institute. Mr. Owen Aves submitted "The Visitors." Their guests were more than guests; they were often buyers when they visited the Refraction Hospital. The Countess of Mayo opened the hospital, and she had brought Sir William Arbuthnot Lane to their meeting that afternoon. The Earl of Mayo was interested in their work. He appealed to the members to take a hint from the Earl and support the Institute. Two years ago the sum of £10,000 was needed, and he was pleased to say that £9,430 had already been received. This showed the spirit behind the profession. Sir William Arbuthnot Lane had said that already been received. This showed the spirit behind the profession. Sir William Arbuthnot Lane had said that afternoon that the hospital was doing what no other hospital was able to perform, and he thought that they were doing a great work. The Countess of Mayo briefly replied in humorous vein. She hoped that they would remember that offerings sent to the Refraction Hospital or the Institute would be welcome. Mr. T. Shaw, P.C., M.P., also replying on behalf of the visitors, said that there would be no better thing in the world than for the Association to appeal for State recognition and justify its demands by the work of the Refraction Hospital. He personally thought they ought to have recognition He personally thought they ought to have recognition if they developed their scientific work. Their recognition would be a blessing to the community. He would be pleased to meet them and help them if he could in be pleased to meet them and help them if he could in the future. Dr. J. Forrest, a vice-president, also replied and thanked Mr. Aves for his remarks. By a certain section they had been maliciously attacked. When sight-testing was mere rule of thumb they were ignored, but to-day they were not ignored but attacked. Before additional benefits came into force their work was unknown, but now they were better appreciated. The institution of the hospital lay solely to the credit of the Institute. It was a benefit to themselves, educationally, and to the poor. Dancing took place until 1.0 a.m.

# Book-Keeping for Chemists

By S. Howard Withey, F.C.I., etc.

#### III .- The Recording of Bank Transactions

At the present time the majority of chemists and druggists, whether in business on their own account or as partners of a firm or directors of a limited liability company, are accustomed to conduct current accounts at a bank, and, consequently, it has become the rule to record all amounts of cash paid to bank, and all cash withdrawn from bank, in separate "Bank" columns ruled on the debit and credit sides of the general cash book. Providing the items are systematically compared with the amounts entered in the bank pass book, no difficulties will be experienced in keeping and balancing the cash book; but there are a number of transactions of a comparatively complicated nature which call for special treatment in the books of account. For the most part these will consist of the necessary entries in connection with dishonoured and unpaid cheques, and the following principles underlying the drawing of cheques should be observed.

A cheque can be made payable to bearer or to order, the former being payable to the possessor thereof, and requiring no endorsement, whereas an "order" cheque must be endorsed by the person to whom it has been made payable, who should sign his or her name on the back of the draft exactly as shown on the face. A crossed cheque cannot be cashed upon presentation at the bank, but should be paid into the payee's banking account; the bank collecting the sum from the bankers named on the cheque, and crediting the payee's account with the amount specified. Cheques sent through the post should be crossed. A person receiving such a cheque and having no banking account must either pass it on to someone who has a banking account, or pay it into a bank for collection, which takes a few days to effect, and in respect of which the bank will charge a small commission. The drawer of a cheque is responsible in the event of a cheque being lost through the post, the legal view-point being that, having chosen the post as his agent, the drawer must bear the consequences. If, however, the payee makes a request that a cheque be forwarded by post, the sender is free from responsibility in the case of loss or miscarriage, the post being then

the agent of the payee.

As a rule, a cheque which has been mutilated will be returned to the drawer by the bank, marked "cheque torn" or "cheque mutilated," unless, of course, the mutilation has been actually confirmed by the drawer as not cancelling the cheque. An undated cheque would be refused at the bank, and returned marked "Incomplete"; while a post-dated cheque cannot be cashed before the date specified. With regard to the amount, if the words and the figures do not correspond with each other, it is customary for the banker to return the cheque to the drawer, marked "amounts differ." All alterations in the amount will have to be properly initialed by the drawer to avoid dishonour. In cases in which a cheque received from a customer is paid to bank and subsequently returned, marked "R/D"—meaning "refer to drawer"—or "N/S" meaning "not sufficient funds"—the right of action of the chemist is against the drawer of the cheque, and not against the bank. Such cheques are said to be dishonoured, and cash should be demanded from the debtor. If the transaction has already been recorded on the debt or receipts side of the cash book, and posted to the credit side of the personal account, the amount should be entered in the "Bank" column on the credit side of the cash book upon receipt of the information from the bank, and posted to the debit side of the customer's account.

Cheques made payable to trade creditors should be recorded separately in the "Bank" column on the credit side of the cash book, with the date and the name of the payee in each case. If any discount has been deducted in respect of payment within a stipulated or recognised period, the amount of such discount should be inserted in the "Discount" column on the credit side, and on the same line as the particular cheque item to which it relates. Both the amount of the cheque and the dis-

count obtained will have to be posted direct to the debit side of the personal account kept in the purchases or bought ledger, with the date of payment, the words "To cheque" and "To discount," and the cash book folio, the page on which the account appears in the ledger being afterwards inserted against the entry in the cash book to show at a glance that the amounts have been actually posted.

#### BALANCING CREDITORS' ACCOUNTS

If the checking of a large number of postings and additions is to be avoided, and errors reduced to a mini-mum, the accounts of suppliers and trade creditors should be balanced and ruled off at the close of each month's transactions. To do this, the items appearing on the debit and credit sides of each account will have to be added up and checked, and the difference ascertained in every case. For the most part, the various amounts recorded on the credit side of any particular creditor's account will represent the invoiced prices of drugs, etc., purchased; as detailed and classified in the purchases book, or bought day book, the folio of which should be shown against each item. On the debit side of the account will be entered the various amounts of cash and the cheques paid from time to time in settlement, or part settlement, of statements which have been rendered, and all amounts of cash discounts obtained for prompt payment, these transactions having been first passed through the cash book. The value of all returns out-wards will also appear on the debit side of the personal account, the amounts shown on the different credit notes being recorded in a separate purchases returns book and posted direct to the ledger. If the number of returns transactions is really few, they could be entered in the end portion of the purchases book, where a sufficient number of pages can be conveniently reserved for the purpose.

If the total of the entries made on the credit side of a creditor's account exceeds the total of the debit entries, the difference will represent the net sum owing to that person, firm or company. When ruling off such an account at the end of the month, the balance will have to be inserted as the last item on the debit side, with the balancing date and the words "To balance carried down," thereby enabling the debit and credit totals to be ruled off opposite each other, and the balance brought down on the credit side to commence the next month or period. In the event of a creditor's account having been overpaid, or if one or more invoices have not been entered up in the purchases book, an account in the purchases ledger may show a debit balance—i.e., the debit total may be greater than the credit total. In that case, the balance will have to be first inserted on the credit side, then brought down as the opening entry on the debit side. The totals of an account which balances should be ruled off at once to show no sum outstanding. The chemist, whether wholesale or retail, who is in the habit of obtaining supplies of drugs, etc., from a limited number of sources, will find the follow-

ing a very effective method keeping creditors' accounts:—
The details enumerated on each invoice received should be carefully compared with the carbon copies of the original orders, and checked as to price and discount, those received from the same person, firm or company being pinned together or otherwise attached, to await the receipt of the monthly statements of account. As soon as a statement comes to hand, the amounts can be ticked off with the totals of the various invoices and credit notes, and the statement initialed and passed for payment. When all the statements have been checked an this way a list of accounts owing can be made out either in a book or on a sheet of ordinary account paper. The total of the amounts shown in this list should then be transferred to the right-hand side of a "Sundry creditors' account" opened in the ledger. Upon remitting cash or forwarding cheques in payment of any of these outstanding accounts, the amounts should be recorded on the payments side of the cash book in the usual way, and the discounts shown in the "discount" column. These cash book items will then be posted direct to the debit side of the "Sundry creditors' account," the balance of which, at any time, should correspond with the total of the unpaid bills.

# Trade Notes

WEIGHING MACHINES.—Shefras Novelty Co., 54-5 Fetter Lane, London, E.C.4, are making a special offer in connection with their weighing machines.

THE IOCO RUBBER & WATERPROOFING Co., LTD., Netherton Works, Anniesland, Glasgow, W.3, have issued a new price list of hospital sheetings, a copy of which may be obtained on application.

STICKING LABELS ON TINS.—Francis Newbery & Sons, Ltd., Charterhouse Square, London, E.C.1, are advertising in this issue Myer's Labelstik tin boxes, which by means of a eardboard disc inset in the lid solve one of the greatest difficulties connected with this type of eontainer.

BRITISH TINTEX & DYE PRODUCTS, LTD., 30 Pembridge Crescent, London, W.11, offer to send to C. & D. subscribers particulars relating to the trade terms, displaymaterial and proposed publicity campaign in regard to Tintex dyes. This information is given on a folder, which, to say the least, is striking. A coupon will be found in the educationment pages found in the advertisement pages.

SALE OF POISONS IN SOUTH AFRICA.—Allen & Hanburys (Africa), Ltd., Durban, have prepared a "Summary of the Regulations for the Keeping and Sale of Poisons, as published in Chapter V of the Medical, Dental and Pharmacy Bill, Act No. 13 of 1928," and chemists in the Union may obtain copies on application. The eard resembles in many respects the well-known C. & D. series of poisons eards.

Marienbad Preparations.—Niltsim Laboratories, 34 London Wall, London, E.C.2, elsewhere in this issue call attention to some of the leading Marienbad products, for which they are the agents. Supplies can also be obtained through the usual wholesale channels. A booklet, which is a guide to the indications and use for home treatment of the waters, salt and other preparations, will be sent post free on request.

AMOEBICIDAL MEDICAMENT.—Burroughs Wellcome & Co., Snow Hill Buildings, London, E.C., have recently made a further addition to their list of amœbieidal agents. This medicament is described as Kharophen, an acetyl derivative of 3-amino-4-hydroxyphenylarsenic acid. It is administered by the mouth as Tabloid Kharophen gr. 4 twice a day for a course of 10 days. It is issued in bottles of twenty-five.

A PROFITABLE DENTIFRICE.—Southall Brothers & Baray, Ltd., manufacturing ehemists, Birmingham, are A PROFITABLE DENTIFRICE.—Southall Brothers & Barelay, Ltd., manufacturing ehemists, Birmingham, are advertising in this issue Alpol Dental Cream, a dentifrice which is noteworthy on account of the excellent value offered. The generous-sized tube of pleasantly-flavoured paste, while selling at a popular price, allows the retailer a good profit. A free sample may be obtained from the Specialities Department.

Ensign snapshot service (Houghton-Butcher (Great Britain), Ltd.) Vietoria Road, Walthamstow, London, E.17, and 169 Crownpoint Road, Glasgow, invite chemists to write for particulars of their developing, printing and enlarging service. All completed work is sent out in a neat wallet ready to hand to the customer. To facilitate the work of all concerned the company symply below of the work of all concerned the company supply books of order forms free of charge, while there is also available a plentiful supply of showcards for window and counter

# Coming Events

This section is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

#### Wednesday, March 27

- I harmaceutical Society of Great Britain, Halifax and District Branch, Old Cock Hotel, Southgate, at 8.30 p.m. Annual general meeting.
- Liverpool Chemists' Association, Royal Institution, Colquitt Street, at 8.30 p.m. Papers by Mr. J. Rae and Mr. H. Wyatt.

THE Home Secretary proposes to make new Orders for securing the welfare of workers in oil-cake mills and factories.

# Trade Mark Applications

- The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Diary," 1929, p. 333.
  - (From "The Trade Marks Journal," March 6. 1929.)

- (From "The Trade Marks Journal," March 6. 1929.)

  "VYMOSS" and "URAYMOS," also device resembling brush; for all goods (3). By W. Crowther, 100 Turnpike Lane, Hornsey, London, N.8. 498,796/797/983.

  "HOPATH"; for medicines (3). By Thompson & Capper, Wholesale, Ltd., Manesty Buildings, College Lane, Liverpool. 498,901.

  "SPEEDLIEF"; for medicinal chemicals (3). By J. Wellwood, 132, Grosvenor Road, Belfast. 498,904.

  "STRENTHOIDS"; for medicinal chemicals (3). By Harkness, Beaumont & Co., Ltd., 253 Great Junction Street, Leith. 498,948. (Associated.)

  "Erbonia"; for medicated herbal tablets (3). By E. Chadwick, 182 Oldham Road, Manchester. 498,966.

  "Malvin"; for medicinal chemicals (3). By Garnett Brothers, Ltd., 16 Howard Street, Rotherham. 499,223. (Associated.)
- (Associated.)

  "MICAREME"; for all goods (3). By Micasox, Ltd., 66
  Chandos House, Buckingham Gate, London, S.W.1. 499,259.
- "KODAPHONE"; for goods (8). By Kodak, Ltd., Kingsway, London, W.C.2. 498,594. (Associated.)
  "C. E. BROOKS" facsimile signature under portrait of man on circle; for trusses, etc. (11). By Brooks Appliance Co., Ltd., 80 Chancery Lane, London, W.C.2. 499,042.
- "C. E. BROOKS" facsimile signature under portrait of man on circle; for trusses, etc. (11). By Brooks Appliance Co., Ltd., 80 Chancery Lane, London, W.C.2. 499,042. (Associated.)

  "Mapbro"; By Wellington & Ward, Ltd., Shenley Road, Boreham Wood, Elstree, Herts. 498,814.

  Oblong picture of ship, etc., with diagonal lines for background, name and address of applicants and monogram "W J B" in each corner; for perfumery, etc. (48). By W. J. Bush & Co., Ltd., 28 Ash Grove, Hackney, London, E.8. 496,748. (Associated.)

  "Garden of Paradise"; for perfumery, etc. (48). By G. E. Heyl. 36 Victoria Street, London, S.W.1. 496,786.

  "Onctor"; for perfumery, etc. (48). By Consortium des Producteurs des Huiles D'Olive de Nice & de Provence, 14 Boulevard Poissonnière, Paris. 497,432. (Associated.)

  "H C T" on diamond shaped device; for perfumery, etc. (48). By H. C. Taylor, The Laboratories, Bury New Road, Prestwich, Lancashire. 498,153.

  "Harvan"; for a depilatory powder or paste not containing soap (48). By Chemical Products Co., 42 John Dalton Street, Manchester. 498,242.

  "Delavelle"; for all goods (48). By G. Boehm. 38 Moreland Street, Goswell Road, London, E.C.1. 498,451.

  "Iolis"; for perfumery, etc. (48). By Editth M. Johnson, 17 Collingham Place, London, S.W.5. 498,513.

#### (From "The Trade Marks Journal," March 13, 1929.)

- (From "The Trade Marks Journal," March 13, 1929.)

  "PLUVEX" and "Ruberine"; for all goods (1). By The Ruberoid Co., Ltd., 296 High Holborn, London, W.C.1. 498,192/193. (Associated.)

  Portrait of Faraday with signature "M. Faraday" and name and address of applicants on circle; for disinfectants and fertilisers (2). By E. Newton & Co., Faraday Works, Holt Street, Birmingham. 487,275.

  "Burgoyne, Burbidges & Co., Ltd., High Street South, East Ham, E.6. 485,794. (Associated.)

  "Digutin"; for medicinal chemicals (3). By The Wellcome Foundation, Ltd., 67 Holborn Viaduct, London, E.C.1. 497,082.

  "Crushettes"; for medicinal chemicals (3), and for perfumery, etc. (48). By Potter & Clarke, Ltd., 60 Artillery Lane, London, E.1. 498,692/693. (Associated.)

  "Thymophysin"; for medicinal chemicals (3). By Chemosan-Union und F. Pezoldt A.G., Kolblgasse 10, Vienna III, Austria. 498,189.

  "Capsifor"; for a medicated preparation (3). By Chemische Fabrik Helfenberg A.G. vormals E. Dieterich, Karl Dieterich Strasse 3, Helfenberg, Germany. 498,778.

  "Onzo"; for ointments (3). By Onzo, Ltd., 188 St. Vincent Street, Glasgow. 499,162.

  Silhauette of two heads on circle with words "For Men For Women"; for preparations for neurasthenia, etc. (3). By Proprietors of Nonn, Ltd., Dashwood House, Old Broad Street, London, E.C.2. 499,260.

  "Shargel"; for medicinal chemicals (3). By Chemische Fabrik von Heyden A.G., 57 Leipzigerstrasse, Radebeul, Gormany. 499,537.

  "Kosmos"; for photographic apparatus (8). By Kosmos Photographics, Ltd., Pixmore Avenue, Letchworth, Hertfordshire. 498,469.

# Births

Notices for insertion in this column must be properly authenticated.

LEVER.—At Merehall Pharmacy, Bolton, on March 14, Norah, the wife of H. N. Lever, chemist and druggist, of a son.

# Marriages

DOUGHTY-MILNE.—At Juniper Green, Midlothian, on March 2, John H. Doughty to Elsie Helen Milne, chemist and druggist.

Ross—Balmer.—At Bangor Abbey, co. Down, on March 12, the Rev. J. A. Ross, B.A., to Muriel, daughter of Mr. J. S. Balmer, Ph.C.

WHITFIELD—CALVERT. — At Manchester, recently, Stephen J. Whitfield, chemist and druggist, Bishop Auckland, to Ruby Calvert

Manchester, recently, Stevenson.—At 40 Durham Road, East Finchley, London, N.2, on March 9, Mr. Edgar William Stevenson, chemist and druggist, aged twenty-six.

# Deaths

BOULTON.—At Stanford-le-Hope, on March 5, Mr. Algernon Boulton, chemist and druggist, aged fifty-seven. Mr. Boulton carried on business at Stanford-le-Hope for twenty-one years.

Cox.—At Nottingham, recently, Edward Cox, for the past forty-five years in the employ of Newball & Wasen, Ltd., manufacturing chemists.

DE CARLE.—At Norwich, on March 5, Mr. Horace Edward De Carle, chemist and druggist, aged seventy-

Dvorkovitz, D.Sc., M.Ph., inventor of the Dvorkovitz process for low-temperature carbonisation, aged seventy-

Hanson.—At Dawlish on March 15, Mr. Philip Freeman Hanson, retired chemist and druggist, aged chty-six. Mr. Hanson is survived by a widow and

HENDERSON.—On March 13, Mr. Alexander Stevenson Henderson, chemist and druggist, for many years in business in St. Cuthbert Street, Kirkcudbright, aged eighty-five. Mr. Henderson served his apprenticeship at Dum-fries, and commenced business at Kirkcudbright in 1868; he also had a branch at Dumfries. The Kirkcudbright by siness is now carried on by his son, Mr. A. K. Henderson, chemist and druggist.

Nicoll.—At Edinburgh, on March 5, Mr. Robert Nicoll, chemist and druggist, aged fifty-eight.

OLIVER.—At The Pharmacy, West Malling, on March 17, after a brief illness, Mr. Henry Charles Hewitt Oliver, chemist and druggist, aged seventy-two. Mr. Oliver was a son of the late Dr. J. Oliver, and brother of the late Mr. F. J. Oliver, chemist and druggist, a former Mayor of Maidstone. Mr. Oliver served is the Mr. Scholer Scholer with the North Charles and Charl on the Pharmaceutical Service Subcommittee of the Kent Insurance Committee. For nearly thirty years he was a member of the Malling Parish Council, and for the past eight years had been its chairman. He also served on the committee of the Malling and District Horse Show Secrety, as well as on the executive of the local cricket and football clubs.

Sisson.—At Bexhill-on-Sea, on March 9, Mr. Edwin Sisson, chemist and druggist, aged sixty-one.

SMITH.—At his residence, 4 Pierrepoint Road, Acton, London, W.3, on March 18, Mr. Joseph Collett Smith, aged sixty-four. Mr. Smith joined the staff of Burroughs Wellcome & Co. in 1881. During the next forty-eight years he became secretary of The Wellcome Foundation, Ltd., a director of some of its associated companies, and manager of the estates department of Burroughs Wellcome & Co. As early as 1895 he was reised to the manager of the estates department of Burroughs wencome & Co. As early as 1895 he was raised to the managerial staff, to mark which event his fellow employees entertained him to dinner. In 1902, in recognition of the attainment of his majority in the service of the firm, the principal presented Mr. Smith with a silver tea service suitably inscribed. His fellow em-

ployees also made a presentation of a gold watch and chain. Mr. Smith's work involved visits to the United States, Canada, Italy, Austria, Portugal, Spain, France, Switzerland and other foreign countries. Mr. Smith was an enthusiastic mason. Initiated in the Eastes Lodge in 1896, he occupied the chair in 1901 and was the secretary at the time of his death. He was a member of the Royal Middlesex Chapter, acted as its Principal in 1906 and 1916, and was secretary when he died. He received provincial honours from the Provinces of Kent and Middlesex, and had lately been the recipient of London rank. Mr. Smith was for many years captain of the Wellcome Cricket Club, and was an active participant in the sports which took place at the Wellcome Club, and Linguistic Wellcome Club, and was an active participant. copie Club and Institute. He is survived by a widow, a son and a daughter.

Souter.—At Galashiels, on March 10, Mr. James Cooper Souter, chemist and druggist, aged forty-nine.

# Personalities

Mr. Percy Robinson, chemist and druggist, Norwich, who has for some time been a town councillor and recently served as sheriff, has been elected an alderman.

MR. GEORGE GRAVE, Ph.C., who is removing from Ipswich to Leigh-on-Sea, has been presented by members of the local branch of the Pharmaceutical Society with a bureau-bookcase as a token of appreciation of his services and good wishes for his future.

Mr. CHARLES M. DURNO, son of Mr. D. M. Durno, chemist and druggist (The Essex Pharmacy, Ltd.), Southend-on-Sea, has recently passed the Board of Trade examination as second officer in the mercantile marine. It will be recalled that Mr. Durno, jun., was awarded the Canadian Humane Society's medal a short time ago for gallant conduct at sea.

C. MR. C. H. HAMPSHIRE, B.Sc., M.R.C.S.Eng., L.R.C.P.Lond., M.B., B.S.(Lond.), F.I.C., Ph.C., has been appointed by the General Medical Council to be secretary of the Pharmacopæia Commission, and will take up his duties from June 1. All communications intended for the Pharmacopæia Commission should be addressed to the secretary of that body at 44 Hallam Street, London,

ALDERMAN DR. G. CLARIDGE DRUCE, F.R.S., presided in the Town Hall, Woodstock, on March 18, at a lecture on the Balkan Peninsula given by Dr. W. B. Turrill, who has recently produced an erudite work on the plants and other features of the area, published by the Clarendon Press. The lecturer referred to the help and encouragement in his early days which had been given him by Dr. Druce, under whom he served at the Fielding Herbarium, Oxford.

Mr. Samuel M. Hibberd, who is retiring from the managing directorship of Martyns Drug Stores, Ltd., chemists, Wolverhampton, commenced business on his own account under the style of the Drug & Dispensing Stores, Ltd., at 26 Queen Street, Wolverhampton, in 1891. The title was subsequently altered to that given above. During thirty-eight years of successful business, fourteen branch establishments have been opened in Wolverhampton, Bilston, Darlaston, Tipton, Walsall, West Bromwich and Preston (Lancashire). Although Mr. Hibberd has retired from active management, he retains certain interests in the company. Continuity of management is also secured by the fact that Mr. J. Crawford, chemist and druggist, former co-director with Mr. Hibberd, is elected to the per heard of directors. elected to the new board of directors.

# Information Department INFORMATION WANTED

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated.

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# Observations and Reflections

By Xrayser III

Your Comments

on the appointment of the committee set up for the purpose of solving, if possible, the problem of what is included in "proper and sufficient" medicine (C. & D., March 16, p. 330) are very much to the point, and I am particularly impressed with your criticism of the composition of the committee. Some of the pharmaceutical representatives selected are decidedly interested parties, because of their position as officers of a body which is actively concerned in the attempt to make the drug bills fit the money available in the drug fund. Not only are they interested parties, but I fail to understand what is their special qualification to help medical men and representatives of Insurance Committees to decide what is or is not a medicine. The Minister of Health has certainly lost an opportunity to appoint a committee of experience to draw a helpful line of demarcation for prescribers between what may reasonably be regarded as medicines and what ought to be classed as foods. In the circumstances, therefore, I do not feel at all optimistic about the general outcome of the work of the advisory committee. You suggest a number of problems which you would like to see passed on to the committee with the object of securing authoritative guidance for prescribers and dispensers, but it is hopeless to expect such problems to be solved without pharmacists of greater experience being appointed on the committee.

#### It is Curious,

by the way, to observe how politicians miss the point in such consideration as they give to the subject of what is "proper and sufficient" medicine. At the outset, there was failure to appreciate what expenditure would be necessary to enable insured persons to have everything requisite provided for them; and the chemist, as a result, had their bills heavily discounted until the method of payment could be wangled so as to make it appear that their remuneration was not only complete but adequate. As time rolled on, we asked for more on occasion, but no advance was ever made in the rate of payment without something being cut off to counterbalance the supposed improvement in our remuneration. Then we got to discounting again, because increased sickness among insured persons found the Ministry of Health insufficiently provided with funds. Further adjustment has enabled the powers that be to arrange that our accounts shall be paid in full for last year. Unfortunately, the chemist is being blamed in certain political quarters for the adoption of the policy which deprives the sick patient of particular medicines that his doctor thinks he ought to have.

## A Change

is probably foreshadowed in the resolution which you report as having been passed by the Leicestershire Insurance Committee (C. & D., March 16, p. 323). In the course of a discussion on alleged inaccurate dispensing of certain prescriptions, it was stated that there appeared not to have been effective supervision over unqualified assistants who had, presumably, made up the medicines complained of. A resolution was subsequently passed, embodying a decision to call the attention of chemists to the importance of prescriptions being dispensed by qualified assistants. In my opinion, such a demand may be expected to become general in course of time, and it will be difficult to prove to the public satisfaction that what is asked for is unreasonable. The chemist's case for increased remuneration would be vastly improved if none but registered persons were allowed to dispense medicines for insured patients; he would also be more fully justified in protesting against encroachments upon his occupation by people who do not possess the same qualification as himself. We ought to be thinking very hard about this aspect of the matter, as the Leicestershire view is much the same as prevails in other areas.

#### The Interesting Article

on the Furness Abbey seal, contributed by "Antiquus," revives the recollection of one of the most enjoyable days I ever spent in prosecuting my botanical studies as a pharmaceutical student. In those years the charabanc tripper was unknown in Furness, otherwise a simple but very delightful experience would not have been mine. On a fine summer's day I visited Furness Abbey and explored its every nook and cranny; in the course of doing so I "spotted" a magnificent specimen of belladonna, not suspended from the arches but growing on the top of the building situated at almost the most southerly point of the ruins. This building has been variously identified, but your contributor will recognise it from its situation. I became "cupidinous," and set about finding a means of obtaining the plant. Fortunately I met the custodian and, with a temerity which would have been of no avail to-day, asked him, with appropriate embellishments, if he thought we could borrow from the hotel a ladder long enough to scale the rather high building. We were successful in doing so, and I bore off the finest specimen of belladonna I have ever seen—with every leaf perfect. Some of these fine leaves are, I believe, still in my possession.

## A Good Drawing

of this seal is given in West's "Antiquities of Furness"; but the sinister shield does not bear the three-point label. There can be little doubt that this, as shown in your illustration, represents Thomas Plantagenet, second Earl of Lancaster, whose arms were the three lions of England with a label of France. It is true that Thomas was also Earl of Leicester, a lordship represented, as your contributor suggests, by the wyvern; but it is not as Earl of Leicester that he bore the device on the shield. Thomas was the son of Edmund Crouchback (first Earl of Lancaster, who bore also these arms), and, it appears, did not wish to display any other arms than those on the shield in question; but West says that his seal, as given in Sandford's Genealogical History, represented him with a wyvern on his helmet. The monks of Furness assumed this emblem as a further honour to their benefactor.

#### The Feature

of the seal of most interest is, of course, the botanical emblems. Do they represent belladonna? It is generally assumed that they do, largely on account of the statement made by West. Writing of the situation of Furness Abbey, he says it "is gloomy and romantic, and formerly produced abundance of the Lethal Bekan, the Solanum Lethale, or deadly night-shade, from which circumstance the vale first obtained the name of Bekangs-Gill," and he refers his readers to a chartulary written in the early years of the fifteenth century by two monkish annalists, John Stell and Richard Esk, monks of Furness. In the poetical preface to this, which is said to be the sole relic of the Scriptorium at Furness, are these lines:—

"Hæc vallis tenuit olim sibi nomen ab herba Bekan, qua viruit; dulcis nunc, tunc sed acerba; Inde domus nomen Bekanesgill claruit ante."

The supposition that Bekangs-Gill means the vale of the deadly nightshade is emphasised by West's gratuitous association of Bekan with the adjective "lethal" appropriated by him from Solanum lethale, the botanical name of belladonna at the time he himself was writing at the end of the eighteenth century. Bekan might just as well indicate the woody nightshade, Solanum dulcamara, a plant much more likely to merit the description "dulcis nunc, tunc sed acerba," and equally common in the Vale of Furness. There is no evidence that Bekan was ever a name for a nightshade at all. A consideration of these points inclines me to regard the plant on the shield as the woody nightshade rather than the lurid lethal belladonna, for which the monks can have had small use and no affection.

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# Editorial Articles

Casuistry and Common Sense

AMONG the difficulties which are troubling chemists and druggists at the present time is that of deciding how best to deal with cases in which old prescriptions brought to them to be dispensed include as ingredients drugs which, since the prescriptions were written, have been made subject to restrictions imposed by the Dangerous Drugs Acts and Regulations. Since such prescriptions, when ordering the particular drugs in quantities affected by the Regulations, are most unlikely to comply in form with the legal requirements, it should be obvious that it will not be in order to dispense the medicines. Apart from this, it is to be remembered that the prescriptions have already as a rule been dispensed as frequently as the law now permits, so that further repetition would be illegal. Again, the prescriptions, if dispensed, must be retained by the chemist, and serious objection to this course being pursued is certain to be taken by customers who have had them in their possession for some considerable time without similar formalities being insisted upon. Trouble is inevitable in any case, and the problem that confronts the chemist is how best to explain the matter to any particular customer so as to avoid giving offence. The trouble has been accentuated recently owing to the extension of restriction to heroin in even minute quantities. Doctors who do their own dispensing have become sadly aware of this fact, and are not hesitating to express their annoyance-witness the following sentences in a letter from Dr. G. C. Garratt, O.B.E., Chichester, in "The British Medical Journal" of March 16 :-

I am allowed to add to the ordinary tablespoonful dose I am arower to add to the ordinary tamespooned dose liq. morph, acet, up to no less than one drachm, liq. morph, hyd, up to 52 minims, tr. opii up to 44 minims [these were the original safety limits], and codeina or diomin up to any quantity, even in addition to any of the foregoing, but if I add to the whole bottle, which contains no other sedative, a minute fraction of a grain of heroin, a drug generally allowed to be not only the most suitable for the particular purpose, but far less likely than morphine or opium to induce habit, I find myself so hedged with restrictions as to prohibit entirely the dispensing of the remedy in these times of heavy pressure of work when it is most required. I have made efforts to discover what steps were taken by our Association to prevent this outrage, but all that I can elicit is that there was an attempt to secure, what has never been allowed in the case of morphine, and was therefore quite unlikely to be granted in the case of heroin, the exclusion from the Dangerous Drugs Acts restrictions of some proprietary or selected preparations containing heroin. . . A little rousing of medical and lay opinion, with perhaps a question in Parliament, or a few deputations to candidates thereto when a general election approaches, would surely have corrected one of the most illogical, ridiculous, and, from every possible point of view, indefensible pieces of mischievous grandmotherly legislation ever foisted upon a long-suffering profession.

It should be clearly understood that it is not now in order to dispense old prescriptions ordering this drug in any quantity, and that customers presenting such prescriptions for repetition ought to be advised to consult their medical practitioners if they think it desirable to take more medicine of the same kind. When

the prescriber is disposed to write a prescription for repeated use in chronic cases, he must, of course, be prepared to order some substitute for the heroin, such as codeine, ethylmorphine, or morphine in less proportion than 0.2 per cent. A similar course must be pursued by chemists who have been selling cough mixture containing diamorphine as an ingredient, and is to be recommended where a "mist tussis" occurs in any local formulary used in connection with National Health Insurance dispensing. Steps are being taken, we understand, to secure exemption for one or more preparations of heroin which may be considered not to possess the habit-forming quality. But it is unlikely that any such preparation will entirely meet the want that is being experienced of a medicament that can be taken with comfort and satisfactory results. The only alternative, therefore, would appear to be a resort to the use of morphine in reduced quantity, codeine, or ethylmorphine. This course is being followed by manufacturers of preparations supplied for dispensing purposes which have heretofore contained heroin as their most important ingredient, but are now being sent out with ethylmorphine or other substitute in place of the heroin. A question arising in connection with old prescriptions ordering such preparations is whether they should be dispensed with the modified preparation without question or explanation, or whether the prescription should be refused on the ground that the preparation originally ordered is now brought within the scope of the Dangerous Drugs Acts. Some chemists will be disposed to adopt the first plan, as being likely to be attended with least trouble; but trouble may arise when the difference in the medicine is observed by the patient after taking it, and any explanation at that stage will obviously par-take of the nature of excuse. Sticklers for strict accuracy, who make a point of dispensing all old prescriptions with preparations of the same composition as were in use at the time the prescriptions were written, will naturally adopt the alternative plan and explain that the medicine cannot be dispensed as originally written unless a fresh prescription is supplied complying with all the requirements of the Dangerous Drugs Acts. This may be followed by the customer taking the prescription to some other chemist whose preference is for a different course; but that is a risk which must be regarded as inevitable so long as there is a possibility of different interpretations prevailing. Probably the worst thing of all that could happen would be that the prescription should be dispensed on one occasion with the modified proprietary preparation and subsequently, by oversight or otherwise, with some of the original preparation which the chemist happened to have in stock. Taking a broad view of the matter, we feel disposed to suggest that the sooner old prescriptions of the kind indicated are cleared out of the way the better it will be for everyone affected. As far as possible, it is desirable that all chemists should act in accord so far as the dispensing of prescriptions is concerned, and particularly as regards prescriptions which may or may not be covered by the terms of the Dangerous Drugs Acts according to the manner in which they are interpreted.

# The Shellac Outlook

MARKET conditions during the past few weeks have been unsettled, and the outlook is none too bright, although the trend of prices has shown remarkable resistance to adverse statistical developments in the past month. There was a moderate decrease in the London warehouse stocks during January, due to very good deliveries of 7,664 cases, against landings of 6,439 cases, or over 1,000 cases under the average for last year, but this chowing was sharply reversed during February with landings considerably heavier at 8,504 cases, whereas out-

goings were comparatively poor at 5,187 cases. therefore, resulted in a renewed accumulation of stocks to the extent of 3,314 cases, with the total amounting to 21,561 cases. This represents over three months' requirements, based on the monthly average of the deliveries for last year, which was in excess of all previous records at 7,122 cases. The fact has to be noted, however, that upon the whole, current supplies within a year or so past have kept in excess of the calls made upon the market, so that the London statistical position, at any rate, has tended to deteriorate, but there is just a possibility that about the worst of this adverse feature has been seen for awhile. All the same, the market is in a somewhat dubious state, while views have been expressed in the American trade that in the first half of this month there has been some contraction in the consumption by manufacturers, compared with the same period last month; and the demand is of a more hand-to-mouth character pending a clearer indication of spring trade requirements. America, of course, being the largest consumer, it is obvious that market possibilities depend a great deal on her absorbing capacity, although on the other hand, given reduced takings by America direct from Calcutta, these are apt to be offset by the progressive rate of consumption on the Continent and other foreign countries. There have been only moderate fluctuations in the London market since the close of last year, this chiefly referring to terminal business in forward positions, but on balance, prices have held up fairly well. After closing in December last at about 200s. per cwt. for spot delivery of T.N. Orange in cases, the market at one period showed a fair recovery; and in spite of the considerably increased stocks last month, the spot value has not lost much ground down to about 195s., which is only 22s. 6d. per cwt. above the lowest point touched last year, and that figure could hardly be regarded as unduly inflated. However, shellac is a highly speculative article; and even at the current level of values no great confidence can be placed on market stability. The fact must not be altogether ignored that much larger shipments were advised from Calcutta for last month, indicating an excess of roughly 60 per cent. compared with the same month last year; and next month's arrivals at this end will probably be again of very liberal dimensions. any case, very ample supplies are assured as suggested under date of January 12 last (C. & D., p. 44), when it was stated that "with the plenitude of supplies which may be expected to continue for the next few months, it is obvious that new speculation is kept under restraint pending further developments in the trade demand.'

The highest and lowest figures recorded for spot delivery during the past two years and since, were approximately as follows:—

Orange T.N. spot per cwt.	Highest	Lowest	Closing price
1927 1928 1929 (to date)	270s. 0d. 257s. 6d. 206s. 0d.	152s. 6d. 172s. 6d. 195s. 0d.	250s. 0d. 200s. 0d. 195s. 0d. (March 16)

The London returns covering the first two months of this year are given below, with comparisons for the preceding five years :-

Cases	1924	1925	1926	1927	1928	1929
London landings: JanFeb. London deliveries: JanFeb. London stocks on Feb. 28		10,116	16,335 11,314 15,868	10,619	19,832	12,851

As will be seen, deliveries for the first two months of last year were abnormally heavy, and resulted in a heavy decrease in the stocks to the comparatively low total of 9,112 cases, but this year the showing is the

other way, and the stocks are thus rather heavy, indicating against the end of February last year, an excess of about 12,550 cases. Deliveries so far this month have been a fair average and well ahead of the receipts, and there has been no indication of pressing offers either at Calcutta or on this side. The following tabulated figures give the monthly averages of landings and deliveries and stocks for the last four years and since:—

London	Monthly	Stocks at end of period	
London	Landings Deliveries		
1925 1926 1927 1928 1929 (JanFeb.)	4,918 5,515 6,811 7,463 7,472	4,831 5,078 6,883 7,122 6,425	10,847 15,894 15,371 19,469 21,561

The figures so far this year thus indicate easier statistical conditions under reduced outgoings and freer supplies compared with the two preceding years, but no particular importance need be attached to the adverse showing over a short period.

#### Medical and Dental Registers

The Medical Register for the year 1929 has just been issued (21s., Constable & Co., Ltd., 10 and 12 Orange Street, London, W.C.2) by the General Medical Council. The number of names tabulated is 54.252, an increase of 661 on the number at the end of 1928, and of 1,806 on the average of the last five years. Registrations during the past year number 1,656; this figure is 285 less than that of the previous year, and 561 less than the past five years' average. The names of 1,038 medical men have disappeared from the Register during 1928—63 more than the average for the past twenty years. The customary legal, statistical and other information is included in the volume. The Dentists Register for 1929, also issued by the General Medical Council (12s., Constable & Co., Ltd.), contains 14,388 names (14,576 in the previous year). During the past twelve months 239 persons have been registered with qualifications, and 22 under the Dentists Act, 1921; one Colonial name has also been added. The number of names removed is 703; of these, 301 were deleted under Section 7 of the Dentists Act, 1921. The percentage of United Kingdom graduates and licentiates in dental surgery on the present Register is 45.37; of persons (other than medical men or dental surgeons) in dental practice prior to the Act of 1878, 3.42; and of persons registered without additional qualifications under the Dentists Act, 1921, 49.15. The Local List at the end of the volume gives under town headings the names of the dentists practising in each place; and an inset supplies names of corporate bodies carrying on dentistry and of directors of such bodies. The Medical and Dental Students Register, published (7s. 6d.) under the same auspices, shows that during the past year 1,363 medical students and 256 dental students were registered in the United Kingdom, compared with 1,214 and 244 respectively in 1927.

#### Shop Hours

Two more Shops Bills have been introduced in the House of Commons; and that, we imagine, is as far as they are likely to get on this side of the general election. The title of one of the Bills is the Shops (Hours of Employment) Bill, and it is backed by a group of nine Labour members. The Bill seeks to establish a forty-eight hour week for shop assistants and to require employers to post up conspicuously in their shops a notice stating at what hour every assistant is to start and leave off work on each day of the week. If necossity demands that an assistant shall be employed overtime, he is to be paid for it. If he is kept for a quarter of an hour or less beyond his normal hour for leaving off work, he is to receive half an hour's pay at the normal rate; if his overtime exceeds a quarter of an hour, he is to be paid for each half hour or part of half an hour worked at the rate of one and a half times his usual remuneration; and if he works overtime on a Sunday or a Bank Holiday, he is to be paid at double

his usual rate of wages. For legislation of this kind proposed we can see neither necessity nor even justification. Thanks, largely, to the provisions of the Shops Acts, the shop assistant of to-day is reasonably well looked after in the matters of hours and conditions of service. Certainly he is already adequately safeguarded against having to work for the long hours that his predecessors of a generation or so ago were forced to accept; and the Bill under review has, we consider, no chance whatever of becoming law while the present Government is in power. The other measure, called the Shops (Sunday Trading Restriction) Bill proposes that all shops, with a few exceptions, shall be closed on Sundays. One of the exemptions is in favour of the sale of medicines and medical and surgical appliances, goods which have rightly received special recognition throughout the past history of shops legislation. In addition, the Bill proposes to give to local authorities power to make, with the approval of not less than two-thirds of the shopkeepers to be affected, an "exemption order" in the cases of certain specified classes of traders, of which the chemist is one. The Bill also prescribes the hours during which the privileged shops may remain open on a Sunday by virture of an exemption order. In the case of chemists and most of the other shopkeepers affected the hours are from 8 a.m. to 10 a.m.; but sweets and tobacco may also be sold between 6 and 8 in the evening. Ultimately, no doubt, legislation will be passed to regulate Sunday trading, but the present state of parliamentary business leads one to suppose that this private member's Bill has little prospect of reaching the statute-book.

# The Citral Value of Lemon Oil

By Ernest J. Parry

It appears to me of the greatest importance that a protest should be made at once by importers of lemon oil against the form of certificates of analysis now being issued to Sicilian exporters. The exporters themselves ought also to protest, as such certificates may be of eventual detriment to them on a considerable scale. A large shipment of oil arrived here quite recently, and I found it to contain 4.1 per cent. of citral. I was informed that it had been sold on a guarantee of 4.8 per cent. citral. Further samples were drawn from various coppers, and in all seven analyses were made by three different observers, all agreeing at 4.1 to 4.2 per cent. In another shipment received from another client, I found 3.9 per cent. of citral. Three analyses were made, two in my laboratory and one in that of my client, and all three were in agreement at 3.9 to 4 per cent. This oil was guaranteed at 4.6 per cent. citral. Eventually the Messina certificates of analyses were forthcoming. These were issued by the Consiglio Provinciale dell'Economia, Messina, and the analyses showed the guaranteed amounts of citral. But on examination of the certificates I find that they read—"Citral (metodo americano) = 4.6 per cent.". . . . etc.—After many years of hard work the old Messina certificates of 8 per cent. and over of citral gave place to the certificate issued as a result of analysis by the hydroxylamine method, which is now the accepted method all over the world. I believe I am correct in saying that the private analysts use only the hydroxylamine process, and, of course, B.P. lemon oil must yield 4 per cent. by that process. There have been several processes, tried, and abandoned in America, so that the words "metodo americano" require explanation. I have been informed that it is a phenyl-hydrazine process. In any event users should firmly insist on a citral guarantee by the hydroxylamine or B.P. process, and refuse to recognise any other.

Antiseptic throat and nasal solutions.—A "Memorandum on Encephalitis Lethargica," issued by the Ministry of Health (Stationery Office, 1d.), gives the following formulas for gargles and nasal sprays as suitable for use by persons in contact with cases of the disease or cases of influenza:—(1) One-per-cent. solution of hydrogen peroxide; (2) a solution of potassium permanganate, 1 in 5.000, in 0.8 per cent. solution of sodium chloride; (3) liquor sodæ chlorinatæ, 0.5 per cent.

# Notes and Queries

Abstract of a paper by J. J. Blackie, Ph.C., F.C.S., read at a meeting of the Edinburgh Chemists,' Assistants' and Apprentices' Association, March 15.

 How would an expert dispense the following mixture? : 10 minims

 Tinct. ferri perchlor.
 ...
 10 minims

 Tinct. aloes
 ...
 2½ minims

 Tinct. cantharidis
 ...
 2½ minims

 Tinct. guaiaci ammon
 ...
 2½ minims

 Glycerin
 ...
 20 minims

 Aq. chloroformi
 ad
 ½ oz

 Mitte 6 oz
 ...
 ...

Add the tinct. ferri perchlor, to 4 oz. of aq. chloroformi containing the glycerin. Add the other tinctures and adjust to volume. There is a bulky precipitate which is readily diffused on shaking. Affix a "Shake the Bottle" label. The mixture assumes a blue colour owing to the guaiaconic acid of the guaiacum resin being converted by the ferric chloride into a deep blue substance termed guaiac-blue.

What is the colour of the following mixture? The first time it was dispensed the mixture was of an amber colour. The mixture has been dispensed several times, but it was only on the first occasion that the amber colour appeared. The dispenser wondered if mucilage should be added.

There is no difficulty with this mixture. The ingredients, when mixed in any order, give a perfectly clear mixture of an amber colour.

What is vegetable sulphur? Vegetable sulphur is lycopodium. Sulphur is said to be one of the adulterants of lycopodium.

The following mixture is said to darken on keeping. Why?

After fourteen days there is no appreciable change in the colour of this mixture. Hexamin in solution, however, has an alkaline reaction, and solutions of drugs of vegetable origin tend to darken in colour in the presence of alkalis.

The following is said to liberate iodine. If so, how can it be prevented?

 Sodii nitritis
 ...
 8 gr.

 Potass, iodid.
 ...
 1 dr.

 Glycerin, pepsin.
 ...
 1 oz.

 Aquam
 ...
 ad 5 oz.

The hydrochloric acid of the glycerin of pepsin decomposes the sodium nitrite, red fumes of oxides of nitrogen being evolved, and, at the same time, iodine is liberated from the potassium iodide. If the hydrochloric acid is neutralised the difficulty is overcome; but as pepsin should only be given in acid solution, objection might be taken to this procedure.

What is MacLean's powder? An article on "The Intensive Alkaline Treatment of Gastric and Duodenal Ulcer," by Hugh MacLean, M.D., D.Sc., appeared in "The British Medical Journal" of April 14, 1928. The following powder, now known as MacLean's powder, was recommended as an antacid:—

 Sodii bicarb.
 ...
 ½ oz.

 Magnes, carb. pond.
 ...
 1 oz.

 Calcii carb.
 ...
 1 oz.

 Bismuth. oxycarb.
 ...
 2 dr.

It is stated that sodium bicarbonate is an excellent antacid, but has the disadvantage that it tends to produce a secondary increased flow of acid. When associated with less soluble bodies, such as magnesium and calcium carbonate, a very satisfactory mixture is obtained.

What is the best method of dispensing the following?

Ammon. ichthosulph. ... 1 dr.
Lin. belladonnæ ... 3 dr.
Adipis lanæ ... ... 3 dr.
Ol. olivæ ... ... ad 1. oz.

A satisfactory preparation is obtained by melting the adipis lanæ in the olive oil, adding the ichthyol and using the equivalent of ext. bellad. liq., previously evaporated to a syrupy consistence, and the requisite amount of camphor.

Is the following mixture compatible?

Ephedrin, hydrochlor, ... 3 gr.
Sodii iodid, ... 1 dr.
Glycerin, ... 4 dr.
Aquam ... ad 3 oz.

A number of alkaloidal salts are precipitated from solution by iodides, but ephedrine hydrochloride is an exception.

My attention was called to the acidity of various samples of parchment paper. When the paper was moistened with water it was distinctly acid to litmus. As this type of paper is sometimes used for powders containing deliquescent substances it is quite possible that chemical action would take place. For example, with nitrites, oxides of nitrogen would be liberated. Waxed paper is more suitable for the purpose.

The following is said to become blue in a few days.

Potass. chlorat.. Ammon. chlorid., Giyeer. acid. carbol., Sodii biborat. ... aa 1½ dr. Aquam ... ... ad 6 oz.

This mixture has been made up for fourteen days, but so far no blue colour has appeared. If by any chance the potassium chlorate contained a trace of hypochlorite, it is possible that a blue coloration would appear.

What are good excipients for the following pills?

(1) Ferri protochlor. ... ... 1 gr. Aloin. ... ... ... ... ... ... ½ gr.

A good mass is made by adding a small quantity of liquorice powder and sufficient adipis lanæ to mass.

(2) Calcii iodid. ... ... ... 2 gr. Canada balsam is a good excipient for this pill.

What is Mohr's Salt? Mohr's Salt is ferrous ammonium sulphate, FeSO<sub>4</sub>(NH<sub>4</sub>)<sub>3</sub>SO<sub>4</sub>.6H<sub>2</sub>O. It is used in volumetric analysis for the standardisation of potassium permanganate solution.

The following mixture, when kept for some time, develops a fungoid growth. How can it be prevented?

Ferri et ammon. cit. ... 4 dr. Liq. arsenicalis ... ... 3 dr. Inf. quassiæ ... ad 6 oz.

One would not expect a mixture containing arsenic to develop a fungoid growth, but on many occasions growths have been observed on the corks of bottles containing liq. arsenicalis. If tap water was used in the above mixture, it may have been the source of contamination. Distilled water should be used, and as a precautionary means it should be sterilised before use. If permissible the addition of chloroform (1 in 400) would prevent any further trouble.

The following is said to precipitate on standing. What is the precipitate and how can it be prevented?

 Phenazoni
 ...
 ...
 1 dr.

 Potass. cit.
 ...
 ...
 3 dr.

 Liq. ammon. acet.
 ...
 ad 2 oz.

After a few hours a beautiful crop of crystals appeared. These were separated and dried. They gave all the reactions for phenazone, but to confirm the tests they were dissolved in benzene and recrystallised from that solvent. The melting point was then determined, and found to be 111° C.. which corresponds to the melting point of phenazone. Crystallisation could be prevented by adjusting the volume to four ounces and increasing the dose accordingly.

Foreign drugs in China.—The petition submitted by the Chamber of Commerce of Yungka in the Chinese province of Chekiang, asking for exemption of import duties newly levied on foreign drugs, has been rejected by the Financial Department of Chekiang Province on the ground that foreign drugs cannot be singled out for exemption.

# Pharmaceutical Society of Great Britain

Branch Meetings

Anglesey.—The annual meeting of the Anglesey, North Carnarvonshire and Colwyn Bay Branch was held at Bangor on March 6, Mr. M. W. Lloyd (Colwyn Bay) in the chair. Councillor L. G. Wood (Leganway) was elected Chairman; Mr. J. McIntosh (Llandudno), Vice-Chairman; and Mr. J. E. Owen (Bangor), Treasurer. Mr. Wood, in his presidential address, suggested that their keynote for the year should be "Union is strength." If those who were well placed forgot their weaker brethren, there was little hope of raising pharmacy. Attempts were being made to take away their birthright. He appealed for unity of ideas, unity of buying, and a high state of efficiency. In conclusion, Mr. Wood asked the members to remember the future pharmacists, and suggested the inauguration of an association for assistants with their own president and secretary. Mr. W. A. Roberts (Llandudno) spoke on the R.P.U. position, and several members expressed their satisfaction. During a discussion on dispensing charges, a resolution was passed urging members to use the R.P.U. scale, and to mark their prescriptions accordingly.

Lancashire (N.-E.).—The annual meeting of the North-East Lancashire Branch of the Pharmaceutical Society was held at Blackburn on March 13, Mr. Arthur Dobson presiding. Mr. Fred Law (secretary), in his annual report, said the year had been marked by the formation of a junior section, and this had proved very successful. Mr. Law presented the accounts, which showed an income for the year of £28 17s. 2d. There was a favourable balance of £16 15s. 9d. Mr. Sidebottom moved a resolution of thanks to the officers for their services during the year. It might be a useful departure to have their meetings in different towns. The resolution was carried, and Mr. Dobson responded. Mr. Lightbown proposed the re-election of Mr. Arthur Dobson as Chairman. Mr. Sidebottom seconded, and the resolution was enthusiastically carried. Mr. Dobson returned thanks and supported the suggestion of Mr. Sidebottom that they should have meetings in the various towns of the area, such as Darwen and Accrington. Mr. Fred Walker (Darwen) was elected Vice-Chairman; Ald. W. H. Grimshaw (Blackburn), Treasurer; Mr. Fred Law, Secretary; and Committee, Mrs. Hargreaves, Mr. S. II. Sidebottom, Mr. Blezard, Mr. Edmundson, Mr. E. Eccles, Mr. W. H. Lightbown, Mr. H. W. Flintoff, Mr. T. C. Gifford, Mr. W. Holt, and Mr. T. Haslam.

Manchester.—A joint meeting of the Manchester Pharmaceutical Association and the local Branch of the Society was held in the Council Chamber. Houldsworth Hall, on March 13. Councillor R. G. Edwards (vice-chairman of the Branch), who presided, apologised for the absence of Mr. William Kirkby (president of the Association), whose doctor would not permit him as yet to attend evening meetings, and Mr. E. H. Simmons (chairman of the Branch), who was in Birmingham on behalf of the Society. He introduced Mr. J. P. Gilmour, editor of "The Pharmaceutical Journal," to give an address on Some Lights and Shadows of a Life in Pharmacy. Mr. Gilmour had a wonderful gift of expression, and his leading articles in the Journal always had a fine literary flavour. He (the chairman) thought he was one of the most versatile men in pharmacy. Not only was he an authority on matters concerning our own business, but, in addition, his knowledge of literature and philosophy was profound. Mr. Gilmour said that his first introduction to pharmacy was in the Australian Bush, where the nearest doctor was 200 miles away, and the chief medicaments they handled were Collis Browne's Chlorodyne, Holloway's Pills and Perry Davis's Pain Killer. Later he returned to Scotland and began his apprenticeship. Mr. Gilmour recorded many incidents that happened during his apprenticeship days. The life was not an easy one, the hours being 8 a.m. to 9.30 p.m., and 12 p.m. on Saturdays, with no weekly half-holiday or summer holiday. At the end of his apprenticeship he became an assistant to Mr. A. Kinnemont, a member of the Scottish board of examiners,

who was a man of culture with many interests. After ten years at the Victoria Hospital, he embarked in business on his own account in Glasgow. He then began to take a closer interest in the public life of pharmacy, becoming secretary of the Glasgow and West of Scotland Pharmaceutical Association, and afterwards its president. In 1912 Mr. Gilmour was appointed a member of the Provincial Pharmaceutical Standing Committee, and afterwards, with Mr. Woolcock, was representative on the N.H.I. Advisory Committee. Mr. Gilmour gave an interesting account of the work of that huge Committee, on which he and Mr. Woolcock, as the only representatives of pharmacy, had to fight for the rights and remuneration of panel chemists. Mr. A. J. Pidd, Mr. J. Grier, and Mr. J. Cleworth expressed their appreciation of an address which had been most instructive and entertaining. Mr. W. Wyatt gave Mr. Gilmour praise, not only for his address, but also for his conduct of the Journal. Under his editorship it had improved enormously. Mr. J. H. Franklin proposed a vote of thanks to Mr. Gilmour for his address. He envied him his retentive memory, which had enabled him to give such a fascinating account of his life in pharmacy. As a diligent reader of the Journal, he could testify to its improvement under Mr. Gilmour's editorship. Mr. D. Dickson seconded, and Mr. A. E. Thorpe supported the vote, which was carried with acclamation. Mr. Gilmour, acknowledging, said that actual praise seldom came the way of an editor. When they got a word of encouragement it was very helpful and appreciated. He thanked them for the compliment they had paid him in calling upon him to speak in Manchester, and for their warmhearted reception.

# New Books

Minutes of the Dental Board, Vol. VII, 1928. 8½ in. by 5½ in. Pp. viii + 209. Constable & Co., Ltd., 10 Orange Street, Leicester Square, London, W.C.2. [The minutes of the Dental Board of the United Kingdom and of its various committees for the year 1928, with eleven appendices, published and sold under the direction of the Board.]

Euler, Hans von.—Chemie der Enzyme. 10 in. by 63 in. Pp. 483. Marks 39.60. Verlag von J. F. Bergmann, Munich. [This is the revised third edition of the first section of the second part of the exhaustive work on the chemistry of enzymes by the well-known Swedish scientist, written in collaboration with K. Josephson, K. Myrbäck and K. Sjöberg, in which the progress realised during the past six years in this important branch of chemistry is abundantly reflected. This section is devoted to the hydrolytic enzymes of esters and esterases, which are dealt with in twelve chapters. The occurrence, constitution, isolation and characters of each enzyme are described in detail, as well as its specific properties and the mechanism of its action. Copious references to the literature enhance the value of this work, which may be regarded as a compendium of present-day knowledge of the chemistry of enzymes.]

Mayer, A. W.—Chemisches Fachwörterbuch. 10 in. by 7 in. Pp. 842. Marks 75. Verlag von Otto Spamer, Leipzig. [This is the first volume of a trilingual—German, English and French—chemical dictionary for the scientific, technical, industrial and commercial expert. However, it covers a wider field than the ordinary technical dictionary, in that special attention has been paid to the inclusion of terms or phrases in current use in the chemical trade, apart from those used in purely scientific work. In this volume the German word is given first, followed, where indicated, by the formula and a brief explanation in German in parentheses; then by the English and French equivalents. In the second volume, now in course of preparation, the English word will be given first, followed by the corresponding German and French designations. This first volume should prove of considerable value to chemists, and to those who deal in chemicals, as a reliable German-English, as well as German-French, dictionary of chemical technology, and we await with interest the appearance of the second volume, which is to be an English-German-French chemical dictionary.]

Trade Report

The prices given in this section are those obtained hy importers or manufacturers for hulk quantities or original packages. To these prices various charges have to he added, wherehy vaiues are in many instances greatly augmented hefore wholesale dealers receive the goods into stock, after which much expense may he incurred in garbling, packing, etc. qualities of chemicals, drugs, essential and fixed oils, vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities.

## 42 Cannon Street, E.C.4, March 21

Business this week has shown signs of easing off owing to the imminence of the Easter holidays. In regard to crude drugs, the fact may be mentioned that immediately subsequent to the auction last week a larger quantity than usual was disposed of. Cod-liver oil continues in fair demand, and in some instances rather higher prices are asked. Ergot is slightly firmer and squill is scarce and dearer. Vanilla is easier. Essential oils have been in fair demand and there are one or two changes. Lime is dearer; star anise for shipment, Ceylon citronella and lemon are firmer; bergamot and the peppermints are easier; rosewood is lower. In the pharmaceutical chemicals business has showed a distinct improvement. Citric and tartaric acids remain firm. Caffeine is dearer, while hydroquinone and thymol are slightly cheaper. Continental makers of sodium salicylate, salicylic acid and sulphonal have advanced their prices considerably. A similar advance has been made by English makers of sodium salicylate and salol will probably advance, likewise phenazone, phenacetin, amidopyrin and aspirim. At the moment no contracts are being booked by the makers; business is strictly limited until the new prices, which will be on a more profitable basis, are fixed. Among the industrial chemicals the general tone continues steady and, with one or two exceptions, business has been quiet. Cream of tartar is fairly active and prices are tending firmer. Formaldehyde and methyl alcohol are slightly easier. Among the fixed oils, business has been quiet, with few changes. Linseed and castor oils are easier; American turpentine is slightly firmer and ground not cheaper. Coconut, cotton, palm kernel, rape and soya are all dull.

Higher	Firmer	Easier	Lower
Caffeine Canary seed Caraway seed (Dutch, spot) Cloves Cod-liver oil Copper sulphate Lime oil Salleylic acid Sodium sallcylate Sulphonal	Anise oil (c.i.f.) Cream of tartar Citronella oil (Cey.) Lemon oil Turpentine  Steadier.  Calcium lactate Naphthalene	Bergamot oil Coriander seed (Mor.) Cumin seed (c.i.f.) Formaldehyde Glauber's salt Ground nut oil Hydroquinone Linseed oil Methyl alcohol Peppermint oils Thymol	Castor oil Farina (Dutch) Ginger (W. Afr.) Menthol Pepper Rosewood oil Rubber Shellac Vanilla

# Cablegram

Bergen, March 20.—The catch of cod since the opening of the season amounts to 33,500,000 against 21,543,000 at the corresponding period of last year, and the yield of steam refined cod-liver oil amounts to 46,699 hectolitres, against 19,323 hectolitres last year. Market is firmer at about 100s. per barrel c.i.f. for finest 1929 Lofoten steam-refined non-freezing oil.

## Crude Drugs, etc.

Antimony has been dull, but unchanged. Chinese regulus on the spot was quoted at £38 ex warehouse, but business could probably be done at a little less, while shipment is £33 c.i.f. English refined is £54 to £55 per ton.

Araroba.—The "Almanrora" has brought 13 packages

Araroba.—The "Almanrora" has brought 13 packages from Buenos Aires.

Balsams.—Tolu is quoted at 4s. per lb. c.i.f. and at 4s. 2d. on the spot. Balsam Canada is 5s. 3d. to 5s. 6d. per lb. Cadmium.—The undertone is very healthy, while it was reported that most of the second-hand offers recently have been cleared off the market. Current quotations on the spot vary from 4s. to 4s. 2d. per lb., according to quantity. Cantharides.—Russian flies are offered at 1s. 5d. per lb. Chamoniles.—Belgian of old crop are selling at from 135s. to 145s. for brownish on the spot.

Chaulmoogra oil.—Genuine Taraktogenos Kurzii is quoted at from 2s, 10d. to 3s. per lb. as to quantity.

Camphor (refined).—Japanese slabs are steady at 2s.  $4\frac{1}{2}$ d. per lb. on the spot, and for shipment 2s.  $2\frac{1}{2}$ d. c.i.f. is quoted;  $\frac{1}{4}$  oz tablets are quoted at 3s. 3d. on the spot.

The exports of camphor from Japan for the past three years were as follows :-

1926		1927		1928
70 700				
00,002		36,741		36,607
,742,167		5,637,732		5,447,522
ere as fe	ollows :	-		
1926		1927		1928
100		100		100
Kin.		Kin.		Kin.
7,345		7,040		8,635
578				599
1.891				191
2,854		1,379		2,927
629		2,514		1.627
13,554	• •	15,643		17,808
967		1,117		1,563
2,264		5,662		3,257
30,382		36,741		36,607
	7,742,167 ere as for 1926 100 Kin. 7,345 578 1,891 2,854 629 13,554 967	,742,167 ere as follows 1926 100 Kin. 7,345 578 1,891 2,854 629 13,554 967 2,264	,742,167     5,637,732       ere as follows:     1927       100     100       Kin.     Kin.       7,345     7,040       578     836       1,891     2,550       2,854     1,379       629     2,514       13,554     15,643       967     1,117       2,264     5,662	,742,167 5,637,732  ere as follows:—  1926 1927 100 100 Kin. Kin. Kin. 7,3345 7,040 578 836 1,891 2,550 2,854 1,379 629 2,514 13,554 15,643 967 1,117 2,264 5,662

CLOVES.—Zanzibar are firm and dearer, with spot sales at up to 1s. 6d. per 1b. To arrive, the sales include March-April shipment at 1s. 6d. per lb. May-July shipment is quoted at 1s. 3½d. c.i.f., and August-October at 1s. 1¼d. per 1b. c.i.f. Madagascar is 1s. 5¼d. spot and March-May 1s. 4½d. c.i.f. The landings of Zanzibar in London during the week ending March 16 were nil and the deliveries 15, leaving a stock of 1,793, against 12,099 in 1928 and 8,889 in 1927. The landings of Madagascar during the week ending March 16 were 175 and the deliveries 139, leaving a stock of 1,810 bales.

of 1,810 bales.

COCOA BUTTER.—Prime English is quoted at 1s. 3½d. to 1s. 4½d. per lb. as to brand, and C.F.R. at 1s. 4d. in not less than one-ton lots. Van Houten's A is 1s. 4½d.

COD-LIVER OIL has a firmer tendency at the source on account of the heavy sales previously made, and Norwegian refiners are inclined to stiffen their adeas, especially as fishing has been interfered with by stormy weather. A fair amount of business is reported, and a number of contracts have been made for delivery over the year. Agents for finest new (1929) season's Lofoten steam-refined non-freezing oil offer from about 98s. to 100s. per barrel, c.i.f.

oil offer from about 98s. to 100s. per barrel, c.i.f.

ALESUND, March 14.—The Norwegian cod fisheries, and especially those in the Lofoten district, have made very good progress in spite of rather unfavourable weather conditions at intervals. The livers are still yielding a rather high percentage of oil, viz., ahout 50 per cent. on average, and for this reason the output of cod-liver oil is more than three times that of 1928 for the same period. As a matter of fact, it is the largest on record up to the first half of March. From the following official statistics it will be noted that while last year 14 million cod yielded 12,933 hectolitres cod-liver oil only, some 27 million cod have this season yielded 38,501 hectolitres. The total output for the whole of Norway is as follows:—

					Yield of c.l.o.
		To		Catch of cod.	hectol.
March	1 9,	1929	 	26,800,000	 38,501
**	10,	1928	 	13,800,000	 12,933
"	12,	1927	 	21,300,000	 26,576
,,	13,	1926	 	13,000,000	 22,290
	7.	1925	 	11,700,000	 22,722

In view of the above figures it must be expected that with a fair fishing during the remaining part of the season, the total output will be very large. The market remains very dull and unsettled.

Encor is slightly firmer at from 1s. to 1s. 1d. per lb. for Russian on the spot, and to come forward 1s. 1d. c.i.f is

GENTIAN continues scarce at from 37s, 6d. to 38s, 6d. per cwt. on the spot, with practically nothing available.

GINGER.—West Africa has been sold at 51s. to 51s. 6d. per cwt. on the spot, and to arrive sellers quote 46s. c.i.f. for March-May shipment.

HENNA LEAVES.—Egyptian on the spot are quoted at 40s. per cwt. and good green Indian at 43s. 6d. per cwt. 88 packages have arrived from Karachi.

INSECT FLOWERS.—Japanese offer at 125s, per cwt., c.i.f. to

Line juice.—West Indian, raw, of second quality is quoted at from 3s. 3d. to 3s. 9d. per gallon, and fair pale old crop at from 4s. to 4s. 3d.

LYCOPODIUM is quoted at 5s. 10d. per kilo on the spot. MEXIHOL remains dull at 21s. 3d. per lb. on the spot for Kobayashi-Suzuki, and other brands at slightly less; for January-March shipment 19s. c.i.f. is quoted.

The exports of menthol from Japan, together with the destina-tions, for the past three years have been as follows:—

	1926	1927		1928
Kin	 528,700	 473,200		323,500
Yen	 10,049,475	 4,897,628	• •	3,914,516

The destinations were as follows:

1926		1927		1928
Kin.		Kin.		Kin.
37,900		27,700		24,900
6,000		19,100		7,200
41,100		67,300		22,800
€0,100		37,500		64,600
28,400		42,100		34,300
322,600		244,700		153,800
11,700		15,900		4,000
20,900		18,900		11,900
528,700		473,200		323,500
704,933		630,933		431,333
11,749		10,515		7,189
	Kin. 37,900 6,000 41,100 60,100 28,400 322,600 11,700 20,900 528,700 704,933	Kin. 37,900 6,000 41,100 60,100 28,400 322,600 11,700 20,900 528,700 704,933	Kin.         Kin.           37,900         27,700           6,000         19,100           41,100         67,300           60,100         37,500           28,400         42,100           322,600         244,700           11,700         15,900           20,900         118,900           528,700         473,200           704,933         639,933           33         639,933	Kin.         Kin.           37,900         27,700           6,000         19,100           41,100         67,300           60,100         37,500           28,400         42,100           322,600         244,700           11,700         15,900           20,900         18,900           528,700         473,200           704,933         639,933

Mercury.—The home trade demand has limited, with consumers only purchasing for their early needs, and current quotations stand at £22 2s. 6d. to

meeds, and current quotations stand at £22 2s, 6d, to £22 5s, per bottle, less 3 per cent. There has been some little inquiry from the Eastern markets, chiefly China, but no important business has been put through in that direction. The tone in New York has been well maintained at about previous quotations, and a fair amount of business has been going on there against orders for shipment from this side. Stocks here have probably been further reduced in the absence of fresh imports for the past month. Pepper is easier. Fair black Singapore is 1s. 5d, per lb. on the spot; March-May shipment is 1s. 5dd, and May-July shipment 1s. 3d, c.i.f. Lampong is 1s. 5d. spot; sales for shipment include May-July at 1s. 5dd, to 1s. 2gd, August-October at 1s. 2d, to 1s. 1gd, to 1s. 1gd, c.i.f. Tellicherry for March-May shipment has been sold at 147s. c.i.f., and Allepy for January-March shipment has sellers at 149s. c.i.f. White Muntok is quiet at 2s. 3d. per lb. on the spot; sales to arrive, include March-May shipment at 2s. 2gd, to 2s. 2gd, to 2s. 1gd, c.i.f., and August-October at 1s. 10gd, to 1s. 104d, c.i.f.

PIMENTO is firm, with spot sales at 1s. 3d. per lb.

PLATINUM has been hardening quietly, while the official price for refined is now £13 17s. 6d., and quite a fair business has been reported down to about £13 15s. per oz. Raw is quoted at about £11 10s. to £12 per oz.

Raw is quoted at about £11 10s. to £12 per 52.

RUBBER is considerably easier, and has declined 13d. per lb. on the week. This sudden "nose dive" is chiefly due to the arrival of the monthly American questionnaire statistics, which are regarded as unsatisfactory, although at first sight they are somewhat misleading. The total constatistics, which are regarded as unsatisfactory, although at first sight they are somewhat misleading. The total consumption for February in America was 40,690 tons, against 43,002 tons for January, although it must be remembered that in view of the fact that there were four more working days in January, so that the daily consumption comes out at a much higher figure. This, however, is discounted by the fact that there are 63,825 tons afloat on the way to New York at the moment. There was a further increase of 522 tons in the stocks last week, and the London stock now stands at 26,442 tons, against 61,033 tons at the corresponding period last year. Quotations (Wednesday, 5 p.m.):—No. 1 standard ribbed smoked sheet, spot and March, 11\(\frac{1}{2}\text{d.}\); July-September, 1s.; October-December, 1s. 0\(\frac{1}{2}\text{d.}\) per 1b. 1s. 0 d. per lb. SAFFRON.—Valencia is quoted at from 45s. to 47s. 6d. per

SAFFRON.—Valencia is quoted at 110m 768.

Ib, as to quality.

SEEDS.—There has been a little more business passing during the past week, and prices keep fairly steady. ANISE.—Spanish 62s. 6d. and Russian 26s. 6d. on the spot. CANARY keeps very firm, with prices still advancing. Mazagan business has been done on the spot at 20s. 9d. to 23s., and 23s. 6d. c.i.f. is now quoted for forward shipment, and Saffi has been done at 22s. 9d. spot. CARAWAY is dearer at 38s. 6d. spot. CUMIN.—Maltese is 55s. spot and Morocco 50s., and the forward price is easier at 48s. 3d. is dearer at 58s. 5d. spot. CUMIN.—Maltese is 55s. spot and Morocco 50s., and the forward price is easier at 48s. 5d. c.i.f. quoted. CORIANDER.—Morocco is easier at 16s. spot, with sellers at 14s. c.i.f. for forward shipment. FENUGREEK.—Morocco remains firm at 18s. 6d. spot and 18s. c.i.f. is quoted forward. HEMP.—Manchurian is 18s. and Chilian 20s. LINSEED, although quiet, remains firm; Mazagan is 21s. 6d. on the spot, and 22s. c.i.f. is quoted forward. FENNEL.—Indian remains at 68s. per owt. spot.

SHELLAC has been quiet and easier, with usual standard TN Orange quality offering at 192s. 6d. per ewt.; fine orange is 220s. to 300s., pure button 235s. and AC cakey 210s. To arrive, sales of March-April shipment have been made at 182s. 6d. c.i.f. Sales for delivery include TN for May at 188s. to 191s. to 185s., and August at 193s. to 190s., and October at 192s.

and October at 192s.

SQUILL.—With small spot stocks and a good inquiry holders ask from 55s, to 60s, per cwt, for fair white and from 40s, to 45s, for brown, There appears to be nothing offering from the source of origin, and still higher prices than those now ruling are eventually looked for.

VANILLA.-Good Bourbon firsts are quoted on the spot at 6s. 6d. per lb. Madagascar is available at 5s. to 5s. 3d.

per lb., with the manufacturing grade offered at 4s. 9d. Buyers show no interest whatever even at these low figures

and the position is extremely weak.

Whid cherry bark is in short supply with thick rossed quoted on the spot at 8½d, per lb.

#### **Essential Oils**

GENERAL demand has been fairly good during the week and

General demand has been fairly good during the week and there are a number of interesting price movements. Lime has advanced by fully 2s. per lb., thus following our prediction of some weeks ago. Lemon is firmer in spite of very heavy arrivals and Ceylon citronella and star anise for shipment are also better. Bergamot and the peppermints are weaker, while rosewood is lower.

Anise (Star).—Quotations for "Red Ship" on the spot continue firm on the basis of 2s. 7d. per lb. on the spot for leads, 2s. 4d. in tins, and 2s. 3d. (net) in drums, these values being relatively cheaper than the figures for shipment. For shipment. For shipment there are various offers which range within narrow limits, but the feature of the position is the fact that there is an absence of deals for March-April, and exporters at the source are all quoting for distant shipment. The prices are approximately 2s. 5d. c.i.f. for leads, 2s. 3½d, in drums.

Bergamor seems to have no bond of sympathy with the other citrus oils and continues dull in spite of the small scale production. It is rumoured that the existence of stocks of old crop are weighing on the market. For shipment quotations are 20s. to 20s. 3d. per lb. c.i.f., while the spot value ranges from 20s. to 20s. 6d. per lb. as to seller.

Canarga is available at 10s. 9d. per lb. on the spot.

CANANGA is available at 10s. 9d. per lb. on the spot. Cassia is neglected and nominal at 5s. 3d. per lb. on the spot for 30-85 per cent. c.a. free from alcohol. Attempts have been made from this side to do business at 4s. 6d. per lb. c.i.f., but this has been unsuccessful with sellers still quoting 4s. 8d, c.i.f.

CINNAMON LEAF on the spot is quoted at 7s. 6d. per lb., with the shipment value at 7s. 4½d. c.i.f., but though supplies are short, no interest is shown by buyers.

supplies are short, no interest is shown by buyers.

CITRONELLA.—Ceylon has firmed up to a value just above that of Java. Quotations for Ceylon are now 2s. per lb. on the spot and 1s. 10d, c.i.f. Java is unchanged but firm at 1s. 11d, per lb. on the spot, and is around the same figure c.i.f. for shipment. Exports from Java during the months January-February showed a marked decline, the returns being 139 tons, against 202 tons for the same period in 1928, 242 tons in 1927, and 204 tons in 1926

CLOVE.—English distilled is quoted at 10s. per lb. in quantities for the 90-92 per cent, eugenol. Second hand parcels are offered at 9s. 6d. per lb. The small consignments of oil from Madagascar which continue to arrive regularly are available at 7s. 9d. per lb. on the spot.

Geranium.—More demand at the source has brought the

regularly are available at 7s, 9d, per 1b. on the spot.

Geranium.—More demand at the source has brought the shipment quotation up to 18s. 9d. c.i.f. and the spot value is firm at 19s. There are indications that the weak holders of Algerian are now sold out, and as the crop has been a short one, the prices are likely to recover. The quotation on spot is now 17s. to 17s. 3d. per lb., according to seller and quantity.

JUNIPER BERRY is neglected at 5s. 9d. per lb. on the spot

for B.P. quality.

for B.P. quality.

Lemon.—The already difficult position is being aggravated by the continued demand for fresh fruit, and the production of oil has now virtually ceased for the season. Many operators, when assuming engagements for oil, did not bargain for this development, and local requirements to meet commitments are contributing factors in the tightening of the market. The position for shipment is now 18s. to 18s. 9d. per 1b. c.i.f., but orders continue to be ignored and it is difficult to realise why offers are made if they cannot be met. The spot value is nominally 17s. 6d. to 18s. 6d., but it is impossible to assess the actual market value. Californian oil is quoted at 13s. 6d. per 1b. on the spot.

formian oil is quoted at 13s. 6d. per lb. on the spot.

CITRAL IN LEMON OIL.—In a note in this issue (p. 360) Mr.

Enrest J. Parry draws attention to the demon oil certificates of analysis being issued by the Chemical Laboratory of the Consiglio Provinciale dell' Economia in Messina. In these certificates the citral content is determined by "metodo americano," which may mean one of several processes, but is possibly a phenylhydrazine method. It is difficult to understand for what reason this daboratory has adopted a process which is not recognised in commerce. The hydroxylamine process is the only one used by private analysts in Messina, and throughout the world, and is the only one recognised hitherto in citral guarantees incommerce. Buyers should refuse to accept any guarantee based on any process but the universally recognised one.

Lemongrass is extremely weak and shows no signs of

LEMONGRASS is extremely weak and shows no signs of recovery at 2s. 11d, per lb. on the spot and 2s. 92d, c.i.f. for shipment.

LIME, as predicted in our report some weeks ago, has gone dearer. West Indian distilled has advanced by fully 2s. per lb. on the spot, and the cheapest quotation is now 54s. per

Hand pressed is purely nominal, but 75s. per lb. has

been quoted.

MANDARIN is unchanged at 28s, per lb. on the spot.

ORANGE.—The available supply at the source is in strong hands, and the shipment values have settled in the region of 25t, per lb. c.i.f. The Sicilian sweet on the spot is variously quoted, and though virtually worth 24s., it is a question of arrangement with the seller. Californian oil is quoted at

arrangement with the seller. Californian oil is quoted at 26s. 6d, per lb. on the spot.

PATCHOULL.—Singapore quality is now firm at the better figure of 19s. 6d, per lb. on the spot.

PEPPERMINT.—Japanese dementholised appears to be more steady following the recent decline. The spot value is 6s. 3d. to 6s. 6d, per lb., according to brand and seller. The various positions forward are:—6s. 1d. c.i.f. for March-Airil, 6s. 2d. c.i.f. for April-June, 6s. 3d. c.i.f. for July-August, while there are sellers of September-October at 6s. 4d. c.i.f. American natural tin oil is rather weaker at 12s. 9d. to 13s. 3d. per lb. c.i.f, as to brand, while the spot values range from 13s. to 13s. 6d. per lb.

PETITGRAIN.—Paraguay is firm at the recently advanced

values range from 13s, to 13s, 6d, per 4b.

PETITGRAIN.—Paraguay is firm at the recently advanced rate of 8s, per 1b. on the spot.

ROSEWOOD (BOIS DE ROSE) is extremely weak, and the value of Cayenne on the spot is now 6s, 9d, per 1b.

Brazilian can now be bought at 5s 9d, per 1b. on the spot.

SASSAFRAS.—More interest has been displayed but values are unchanged. Natural American is available at 3s, 10d, per 1b. on the spot, while shipment is 3s, 7d, c.i.f.

The following arrivals have taken place from the countries indicated during the period March 13 to March 19 (inclusive):—Almond (Sp.), 4 cs.; anise (Ch.), 12 pkgs.; bergamot (It.), 55 cs.; ccdarwood (U.S.), 5 dm.; cinnamon (Cey.), 1 cs.; citronella (Br. Ind.) 6 dm., (Jv.) 6 dm.; clove (Madag.), 4 dm.; copaiba (U.S.), 1 cs.; geranium (Fr.), 2 dm.; lavender (Fr.), 3 cs.; lemon (It.) 462 cs., (Br. Ind.) 2 dm.; lavender (Fr.), 3 cs.; lemon (It.) 462 cs., (Br. Ind.) 2 dm.; lemongrass (Br. Ind.) 6 dm., (Ger.) 1 cs.; lime (B.W.I.), 5 cs.; orange (It.) 7 cs., (Sp.) 4 cs.; pansy (U.S.), 1 cs.; patchouli (Strs.), 25 cs.; peppermint (Jp.), 75 cs.; petitgrain (Ger.) 25 cs., (Arg. Rep.) 10 cs.; pine (Ger.), 6 dm.; rozewood (Braz.), 3 dm.; sandalwood (Aust.), 2 dm.; wormseed (U.S.), 4 dm.; undescribed (Fr.) 1 cs., (It.) 18 cs. (It.) 18 cs.

#### Pharmaceutical Chemicals, etc.

JUST towards the close (Wednesday) comes the announce-Just towards the close (Wednesday) comes the announcement of a slarp advance in a number of German pharmaceuticals for this market, involving sodium salicylate, salicylic acid and sulphonal. Other items expected to advance are amidopyrin, aspirin, methyl salicylate, methyl sulphonal, phenacetin, phenazone and salol. At the moment the position is one of chaos, and no contracts are being booked, business being strictly limited. It is common knowledge that for a lengthy period the foregoing chemicals which are in popular demand have been sold at an unremunerative level, and an endeavour is being made to bring which are in popular demand have been sold at an unremunerative level, and an endeavour is being made to bring about more healthy conditions. The English makers of sodium salicylate and salicylic acid have also advanced their prices. Citric and tartaric acids are holding firm on healthy markets. Caffeine is dearer. Hydroquinone and thymol are slightly cheaper. Business has been on quite a good scale during the past week.

ACETANILIDE is, if anything, slightly firmer at 1s. 5d. to 1s. 6d, per lb., as to quantity of B.P. crystals and powder; the lower price of 1s. 43d, would be taken for big quantities.

AMIDOPYRIN is unchanged on a quiet market at 7s. 6d. to

AMIDOPYRIN is unchanged on a quiet market at 7s. 6d. to 7s. 9d. per lb. spot.

ASPIRIN.—There is no change from our report of last week. Continental make is selling at about 2s. 2d. for ton lots, 2s. 2½d. for a few cwt. and 2s. 5¼d. to 2s. 4d. per lb. for smaller parcels. There is a tendency for Continental prices to advance, and at the close we hear that Continental prices have been withdrawn pending revision. British makers are meeting the market while their list prices are unchanged at about 2s. 3d. to 2s. 4½d. per lb., as to quantity.

BARBITONE remains quiet, with dealers offering spot at about 5s. 6d. to 5s. 9d. per lb.; market is quiet.

BENZALDEHYDE (.03). is unchanged on a slow market; quoted on spot at 1s. 10d. to 2s. per lb., as to quantity.

BENZOIC ACID (B.P.) continues active on a firm market: quantities, ex works, 2s. 1d. upwards; spot parcels, from 2s. 2¼d. to 2s. 3d. per lb.

BROMIDES are unchanged; business continues on limited lines: dealers quote ammonium, 1s. 11d.; potassium, B.P.

BROMIDES are unchanged; business continues on limited lines: dealers quote ammonium, Is. 11d.; potassium, B.P. crystals, Is. 7d.; granular, Is. 7d.; sodium, B.P., 1s. 9½d. to Is. 10d. per Ib., for quantities in cases. British makers' list prices are unchanged: ammonium, 2s. to 2s. 3d.; potassium, B.P., Is. 8½d. to Is. 11½d.; sodium, B.P., Is. 11d. to 2s. 2d. per Ib., as to quantity.

CAFFEINE is rather firmer, with importers now asking 6s. 9d. for pure cryst. and about 5s. to 5s. 6d. for citrate.

CALCIUM LACTATE is steadier at 1s, 2d, for quantities and 1s. 2½d, to 1s, 3d, per lb, for smaller lots, CHLORAL HYDRATE is steady on spot at 3s, 1d, to 3s, 3d, per lb, for duty-paid crystals.'

CUTRIC ACID (B.P. crystals) continues healthy, with spot prices fully maintained at 2s, 1d, to 2s, 2d, per lb, less 5 per cent., as to quantity, for foreign. The forward quotation is unchanged, as reported in our last issue, CREOSOTE (B.P.) is steady on a slow market: spot, 1s, 8d, for quantities in demijohns, and 1s, 9d, per lb, for small lots.

CREOSOTE CARBONATE is quiet at 5s. 10d. to 6s. per lb. GUALACOL CARBONATE continues to be offered on spot at about 4s. 9d. to 5s. per lb.; market is slow.

HEXAMINE is unchanged at 1s. 10d. to 2s. per lb. for free running crystals; competition is very acute.

HYDROQUINONE is easier, with a fair amount of business moving; cwt. lots at 3s. 8d. per lb. up to 3s. 11d. for 14 lb. parcels.

14 lb. parcels

LACTIC ACID (B.P.) continues at the controlled prices; fiveton lots, 1s. 6½d., up to 1s. 10½d.; per lb. for small parcels.

MENTHOL (SYNTHETIC) is quoted at from 11s. to 12s. per METHYL SALICYLATE (B.P.) is steady but quiet at 1s. 4d. to

however, following the advance in salicylates.

METHYL SULPHONAL is duil at 8s. 9d. to 9s. per lb. on the

spot. An advance is, however, expected in view of the rise in sulphonal.

ARAFORMALDEHYDE is steady, with a fair business being done: quantities of 100 per cent. powder at 1s. 7d. per lb., in kegs; smaller parcels from 1s. 8d.

PARALDEHYDE is steady but quiet at from 1s. 1d. to 1s. 3d. per lb., as to quantity and packing.

PHENACETIN is very steady on spot at 2s. 2d. to 2s. 4d. per lb., as to quantity; Continental offerings are mostly at rathy, higher prices.

Phenazone is unchanged at 3s. 7d. to 3s. 9d. per lb., as to quantity; business is fair.

PHENOLPHTHALEIN is firm, with Convention prices being obtained: 5s 1ld. to 6s. 1½d. per lb., as to quanity.

POTASSIUM PERMANGANATE (B.P.) is unchanged on a slow market: quantities in cwt. drums, 5½d.; smaller parcels, from 6d. per lb.

market: quantities in cwt. drums, 5½d.; smaller parcels, from 6d. per lb.

Potassium sulphoguataoolate is neglected: dealers quote spot up to 3s. 8d. to 4s. per lb.

Resorcin is steady with a fair business being done: quantities from 2s. 9d. to 2s. 11d. per lb.

Salicylic acid.—Dearer. The English makers' prices for B.P. in small quantities is now 1s. 7d., one cwt. 1s. 6d. and two cwt. lots 1s. 5½d. The German makers' price for B.P. is now 1s. ½d. per lb. in half-ton lots, f.o.b. Hamburg, which is equivalent to approximately 1s. 6½d. per lb. in London. Imports, however, are subject to licence.

Sodium benzoate (B.P.) is bright and business continues on a good scale; quantities in two-cwt. barrels, 1s. 8½d.; in one-cwt. barrels, 1s. 9d.; smaller parcels, from 1s. 10d. per lb. Sodium salicylate (B.P.).—In conjunction with the advance in Continental makers, the English makers have also raised their prices, and now quote powder in small lots at 2s. 4d. per lb.; one cwt. 2s. 3d. and two cwt. 2s. 2½d. per lb.; crystals are 1d. per lb. extra. Continental makers are also 9d. to 1s. per lb. higher, they quoting material to come forward at prices equivalent to 2s. 3d. to 2s. 4d. per lb. for powder and 2s. 6d. to 2s. 7d. for crystals on the spot. It may be said that the German makers' price for B.P. powder in half-ton lots is now 1s. 8½d. per lb., f.o.b. Hamburg, which, with K.I. duty and freight, is approximately equivalent to 2s. 3d. per lb. in London.

Sulphonal, which was formerly selling at about 6s. per lb., has now been advanced to 10s. per lb. by the German makers.

Tannic acid.

makers.

makers.
Tannio acid continues steady, with business limited: B.P. leviss, 2s. 10d., for quantities, and about 3s. per lb. for small parcels.
Tartario acid (B.P. crystals).—There is little to add to our report of last week. The spot position is firm at 1s. 44d. to 1s. 42d. per lb., less 5 per cent., for foreign.
Thymol is rather easier, with synthetic fine white in cwt. lots offering down to 9s. 3d. per lb.; ex ajowanseed, about 1ls. 3d. per lb.
Vanillin is steady on a rather slow market: 100 per cent. from cloves, 17s. to 17s. 9d. per lb.; ex guaiacol, 14s. 9d. to 15s. 3d. per lb.

## Industrial Chemicals, etc.

London, March 20.

WITH one or two exceptions, this market has been rather quiet, but the general tone continues steady. Cream of tartar has advanced on quotation. Formaldehyde is rather easier.

ACETIC ACID continues in normal demand, with prices maintained; 80 per cent. technical, £36 15s.; 80 per cent. pure, £37, in barrels; glacial, pharmaceutical, 99 to 100 per cent., £66, in glass demijohns; glacial, in barrels, £56 per ton, ex store.

ACETONE is firm, with a good demand; B.G.S., in drums,

ten-ton lots, £76 10s.; five-ton lots, £78 10s.; one to five-ton lots, £31; less than one ton, £85 per ton, ex store.

ALUM is steady with rather limited business; lump, in casks, £8 7s. 6d. per ton, in casks, ex store; slightly less for quantities.

Quantities.

Anmonium chloride is bright and dealers' prices are well maintained; grey galvanizing, in casks, £21 10s. per ton, in casks, ex store; slightly less for contracts.

Anmonia (anhydrous) is meeting with the usual seasonal demand and quoted prices of 10d. to 1s. 2d. per lb., in loaned cylinders, carriage paid, are being obtained; slightly less for big contracts.

Arsenic.—There is some little business in white Cornish 99 per cent., and agents are asking £16 to £16 5s. per ton f.o.r. mines. Mexican high-grade is now obtainable at £17 c.i.f. Liverpool.

Barlum chloride is unchanged, but quiet; spot, 98 to

Bartum Chloride is unchanged, but quiet; spot, 98 to 100 per cent, prime white crystals, £11 5s. per ton, in casks, ex store; slightly cheaper for contracts.

CAUSTIC SODA.—Home makers' prices for contracts for home trade are unchanged.

COPPER SULPHATE.—There has been a further advance on account of the big rise in rough bar copper. Current terms for casks now range from £30 to £30 los. per ton, f.o.b., less 5 per cent. There has been a fair export demand.

CREAM OF TARTAR is holding well at the higher prices now quoted; 95s. 6d. to 97s. per cwt., less 2½ per cent., for fair quantities of foreign powder; the market is fairly active and tends to harden.

Ersom Salt is unchanged with commercial quality in single bags at £4 per ton, ex store; slightly less forward.

FORMALDEHYDE is rather quieter and the market is now quoted at £36 per ton, for 40 per cent. by volume, in casks, in not less than ton lots.

FORMIC ACID is very steady despite the poor demand at the moment; 85 per cent., £46 to £46 12s. 6d. per ton, in carboys, ex store.

GLAUBER'S SALT has been quiet and prices for quantities of commercial quality are easier at about £3 10s. per ton

ISOPROPYL ALCOHOL is steady, and there is a fair business moving; reliable make, 11s. to 12s. per gallon, in drums, carriage paid.

LEAD ACETATE is steady but not in any great call; brown, £39 10s. to £40; white, £40 10s. to £41 per ton, in casks,

LITHOPONE has been meeting with a fair inquiry, with

LITHOPONE has been meeting with a fair inquiry, with prices for 30 per cent. Continental red seal steady at £19 10s. per ton, in casks, ex store; slightly less for contracts.

Oxalic acid is steady, but there is not much important business being done; quantities, £30 per ton, ex wharf; spot parcels, 32s, per cwt., ex store.

Potassium carbonate is steady and a satisfactory business is reported; 90 to 92 per cent., £24 10s. to £25; 96 to 98 per cent., £25 15s. to £26 per ton, in casks, ex store; slightly cheaper for contracts.

chcaper for contracts.

POTASSIUM CHLORATE remains slow, with prices for quantities to arrive at about 2gd, per lb., ex wharf; spot parcels, from 3d. to 3gd, per lb., ex store.

POTASSIUM PERMANGANATE is steady but quiet; commercial quality, in two-cwt. drums, 5d. to 5\(^4\)d. per lb., ex store. POTASSIUM PRUSSIATE is steady and normal business is being put through; quantities, £63 10s. to £65 10s. per ton; single casks, 7d.; small parcels, 7\(^1\)d. per lb., ex etore. SODIUM ACETATE remains slow and the spot position is none too steady as quoted at £21 5s. per ton, in casks, ex

SODIUM CHLORATE is again dull, last week's slightly better

SODIUM CHLORATE is again dull, last week's slightly better demand having fallen off; quantities, to arrive, from 2\frac{3}{2}d.; spot pareels, from 3d. per lb., ex store.

SODIUM PRUSSIATE is steady and dealers report a fair demand: quantities, from 4\frac{3}{4}d. to 5d.; smaller lots, from 5\frac{1}{4}d. to 5\frac{1}{2}d. per lb.

SULPHUR is in very fair demand for American crude, quotations being \(\frac{2}{2}\)5 12s. 6d. to \(\frac{2}{2}\)5 17s. 6d. Refined Sicilian flowers are \(\frac{2}{2}\)12. 7s. 6d., refined ground \(\frac{2}{2}\)11 and roll \(\frac{2}{2}\)9 15s. per ton, all c.i.f. to arrive.

per ton, all c.i.t. to arrive.

Coal tar products, etc.—This section continues quiet. Pitch is unchanged on quotation, the market being dull. Methyl alcohol is easier and naphthalene is steadier. Aniline off continues steady at 8d. per lb., carriage paid, packages extra. Aniline satt is unchanged at 8d. per lb., carriage paid, packages extra. Betanaphthol is unchanged at 10d. per lb., carriage paid for quantities. Carbolic acid.—Crystals continue steady but in limited demand; 6½d per lb., carriage paid or f.o.b., in drums with over-casks for

minimum five-ton lots. CRUDE CARBOLIC 60's, 1s. 11d. per minimum five-ton lots. CRUDE CARBOLIC 60's, Is. 11d. per gallon, naked at works. CREOSOTE OIL is quiet; ex works, 4½d. to 4¾d.; f.o.b., 6½d. per gallon, in bulk quantities. NAPHTHALENE is steadier and meeting with more business; imported flakes and balls, £15 15s. per ton, in cases, ex wharf. METHYL ALCOHOL is easier; spot £45 per ton, in drums, ex store and cheaper forward in quantities. PYRIDINE continues slow at 4s, 6d. per gallon, f.o.b. TOLUOL is unchanged with the demand fair; commercial 90's 1s. 7d.; pure, 1s. 10d. per gallon, at works. PYROL continues quiet; commercial, 1s. 7d.; pure, 1s, 10d. per gallon, at works. PITCH continues unsteady with the market dull at 32s. per ton, f.o.b., East Coast. ton, f.o.b., East Coast.

#### Fixed Oils, etc.

CONDITIONS have been quiet during the past week, but there is little important change. Linseed oil is easier and castoroil is at lower figures. American turpentine is slightly oil is at lower figures. American turpentine is slightly firmer. Palm oils about balance on the week. ACID OILS continue dull; coconut and/or palm kernel, 34s. 3d.; groundnut, 32s.; soya, 28s. spot. Caston is easier and still dull; pharmaceutical, 51s. 6d.; first pressings, 46s. 3d.; second pressings, 45s. 9d. per cwt. in barrels on the spot in second pressings, 45s. 9d. per cwt. in barrels on the spot in second pressings, 45s. 9d. per cwt. in barrels on the spot in second pressings, 45s. 9d. per cwt. in barrels on the spot in second pressings, 45s. 9d. per cwt. in barrels on the spot in second pressings, 45s. 9d. per cwt. in barrels on the spot in second pressings, 45s. 9d. per cwt. in barrels on the spot in second pressings, 45s. 9d. per cwt. in barrels on the spot in second pressings, 45s. 9d. per cwt. in barrels on the spot in second pressings, 45s. 9d. per cwt. in barrels on the spot in second pressings, 45s. 9d. per cwt. In barrels on the spot in second pressings, 45s. 9d. per cwt. In barrels on the spot in second pressings, 45s. 9d. per cwt. In barrels on the spot in second pressings, 45s. 9d. per cwt. In barrels on the spot in second pressings, 45s. 9d. per cwt. In barrels on the spot in second pressings, 45s. 9d. per cwt. In barrels on the spot in second pressings, 45s. 9d. per cwt. In barrels on the spot in second pressings, 45s. 9d. per cwt. In barrels on the spot in second pressings, 45s. 9d. per cwt. In barrels on the spot in second pressings, 45s. 9d. per cwt. In barrels on the spot in second pressings and second pressings are spot in second pressings. groundnut, 32s.; soya, 23s. spot. Castor is easier and still dull; pharmaceutical, 51s. 6d.; first pressings, 46s. 3d.; second pressings, 43s. 9d. per cwt. in barrels on the spot in not less than one-ton lots. Coconut shows no change, but remains dull; deodorised, spot, 42s. 6d.; Cochin, 43s. 6d.; c.i.f; Ceylon, 36s., c.i.f. Cotton is about level on the week, closing dull; deodorised, 38s. 6d.; common edible, 36s. 6d.; soapmaking, 34s. 9d.; crude, 31s. spot. Groundnut is easier and still dull; deodorised, spot, 45s.; crude Oriental. 37s. 6d. c.i.f. Palm kernel.—Prices are unchanged and market is quiet; deodorised, 46s.; crude, 38s. spot. Palm.—Business has been patchy over the week, with prices showing but little-alteration, closing steady. Lagos, 39s.; softs. 37s.; mediums, 38s. 3d.; hards, 39s.; bleached, 40s. 3d. spot. Rape has been quiet; prices are unchanged; refined, 46s. 6d.; crude, 44s. 6d. spot. Soya.—Business has been slow and prices are unchanged; deodorised, 40s.; crude, 44s. 6d. spot. Linseed (raw, naked) is easier for all positions and has been slow throughout. On spot, 29s. 3d.; March, 29s.; April, 28s. 7½d.; May-August, 28s. 9d.; September-December, 29s. 3d. Boiled oil, spot, 33s. 3d. Hull, on spot, 28s. 7½d.; April, 28s. 7½d.; May-August, 28s. 10½d.; September-December, 29s. 3d. Tubentine.—There has not been much alteration on the week, but the tone has been somewhat steadier, while it was reported that heavy rainfalls throughout the turpentine belt are expected to delay the new crop for several weeks. The London spot price closes at 45s. 6d. and April-June at 45s. 9d. per cwt. London deliveries for last week were 1,910 barrels, making a total of 19,094 barrels since January 1, against 21,523 barrels the same period last ycar. Stocks were reduced to 22,424 barrels, against 27,610 barrels ay year ago. Ineluding landings and afloats the London visible supply made up at 24,424 barrels, comparing with 47,610 barrels the same date last year. Resin.—The tone was steady despite the limited amount of b 7s. 3d. ex wharf. Italian edible 8s. 6d. per gallon ex wharf.

LUBRICATING, MINERAL, BURNING OILS, ETC.—There is no change of importance to record. Benzol is still nominal at works prices. Lubricating oils are steady on spot. BENZOL.—The position remains with producers still asking 1s. 8d. to 1s. 84d. per gallon for standard motor 90's in tank wagons. —The position remains with producers still asking 1s. 8d. to 1s. 8\frac{1}{4}d. per gallon for standard motor 90\sin in tank wagons, ex works; London, 2d. per gallon dearer. There is little business moving and the market remains nominal. Fuel oil continues steady, with prices unchanged; 950 gravity, 23 17s. 6d. per ton, ex tank; slightly cheaper forward. Paraffin oils continue firm and unchanged; American standard white, 1s.; water-white, 1s. 1d. per gallon, in barrels, ex wharf. Paraffin wax and scale are unaltered at last week's cheaper prices. Wax is quoted at 2\frac{3}{2}d. to 4\frac{2}{3}d. per 1b., according to melting point, in bags; scale for shipment is offered at about £21 per ton, c.i.f. Lendon. White oils are unchanged with the demand fair; special No. 1, £23 7s. 6d.; No. 1, £25; No. 3, half-white, £29 10s.; No. 4 half-white, £19 15s. 5d. per ton, drums and barrels free, ex wharf. Solveen nahrhas are in moderate demand and steady; 90 to 160, 1s. 1d. to 1s. 2d.; heavy, 90 to 190, 1s. to 1s. 1d. per gallon, naked at works. Petroleum iellies continue quiet and unchanged; white to snow white, £38 10s. to £47 10s.; amber and yellow, £17 15s. to £22; dark stiff green, £11 12s. 6d., per ton, barrels free, ex wharf. Lubricating oils continue very firm. The shipment market for cylinder oils continue exceedingly firm and points to higher prices. Spot: pales, £10 to £22 10s.; reds. £11 5s. to £22; dark cylinders, £13 5s, to £23 10s.; filtered cylinders, £21 to £34 per ton, less 2\frac{1}{2} per cent.



Letters for this section should be written on one side of the paper only. Correspondents may adopt an assumed name for purposes of publication, but must in all cases furnish their real name and address to the Editor.

## Rationalisation

SIR,—Referring to the comments on rationalisation in the C. & D. of March 16, surely the experience of rationalisation has been a reduction of prices and an increase of real wages which benefits industry all round, provided the basic industries are rationalised.

Yours faithfully, J. H. Stott.

Hitchin.

#### Perfumes and their Prices

SIR,—Referring to the illustrations of glassware for perfumery in the C. & D. of March 9 (p. 294), it may be that the requirements of Miss 1929 are for a smaller and neater package, and to that end most of the perfumery houses have introduced the flat style of bottle for their products. But there are still a large number of customers who prefer the older round- or oval-stoppered bottles, and judging by the remarks of many of them there seems to be a prevalent idea that the of them there seems to be a prevalent idea that the new style is in reality a means of selling less bulk of perfume for the same money. Like many ideas which perfume for the same money. Like many ideas which the public get, this is very hard to combat successfully, and where available I have found it necessary to stock both patterns in order to fill the demand. In the article on "The Popularity of Combination Sets" (p. 297), it is stated that the additional box proves a sound investment in view of the additional sale; but it is a pity that many manufacturers add an extra sum to cover the cost of the box. It is true that this amount is generally only formers. It is true that this amount is generally only fourpence or sixpence; but even when people are buying gifts they are very keen about getting value for money, and, more-over, many of the customers know the prices of the indi-nidual items extended in the prices of the indiover, many of the customers know the prices of the inar-vidual items contained in the set, and it is not uncommon for them to add up the cost of these when they find out that they are being charged an extra sum for the box, which they resent. Those manufacturers who are farsighted enough to see this reap the benefit, and it would be advantageous if it were done in all cases for the next Christmas trade.-Faithfully yours,

# SCATOLA (18/3).

Pharmacy Weeks and Shopping Weeks SIR,-At the same time that the R.P.U. are advocating the arrangement of a pharmacy week for October (C. & D., March 9, p. 283), we read that in Bradford (p. 307) one gentleman considers shopping weeks a farce because retailers fill their windows with goods at prices below the usual rates. This is a mistaken policy, for if new customers come during the shopping week and then on subsequent visits find the prices higher it will do more harm than good. There must be some form of attraction during such a week. Some traders adopt the idea of a prize scheme; others feature one special line as a bargain for one week only; some localities have combined to run omnibuses from the outlying districts, the fares being refunded to customers who spend over a certain amount; but to adopt what amounts to general price cutting can only defeat the object in view, and is to my mind in the same order as the penny sale. But I am not confusing the idea of a pharmacy week with that of a shopping week for general traders. A pharmacy week should be devoted principally to educating the public to the fact that the pharmacist is more than a trader, and to that end should not have anything to do with competitive prices or try to imitate a sales week. Whether a display of dispension utansils only would Whether a display of dispensing utensits only would convey much to the modern customer is doubtful; but at any rate a small portion of the window might be given to such apparatus as a centrepiece, and it could be backed up with purely pharmaceutical goods, medicinal preparations, tablets and household remedies, leaving out for once all advertised proprietary lines,

toilet accessories, etc. The adoption of a standardised window slip with appropriate wording would do much to focus public attention on the idea of the week, and for once it should be advertised nationally as well. To for once it should be advertised nationally as well. To show similar lines at varying prices in pharmacies in the same street would be to defeat the object of the week at the outset. Why not ask for suggestions from pharmacists on the subject? The best of them could then be chosen and a really good forceful window display worked out and adopted as a national programme.

Yours truly,

National Window (19/3).

NATIONAL WINDOW (19/3).

#### Dispensing: Who Does It?

SIR,—There is a fixed belief on the part of many chemists in business that the stores and multiple shops do an inordinate amount of dispensing. The aggregate, of course, is large, but the average per branch does not work out at anything extraordinary. Many of my work out at anything extraordinary. Many of my friends do more than eighty scripts a week, and some do considerably more. When we suppose, as we must, that this number includes N.H.I., and probably some specimens in the family recipe class, the average is not alarming. It is, I believe, a fact that the more imposing and palatial the branch, the less relatively will be the average of prescriptions. To people "out of sorts," and, perhaps, just from their doctor with a prescription, much of the glare and glitter of the departmental store is artipathetic, and one may reasonably partmental store is antipathetic, and one may reasonably infer that the quieter pharmacy round the corner is more likely to get their custom. In my experience it is comparatively easy to damage a good dispensing connection by the introduction of goods extraneous to pure pharmacy. Most of our friends who undoubtedly do really good dispensing trades to it the the results. pharmacy. Most of our mends who undoubtedly do a really good dispensing trade see to it that the way to the drug counter is not unduly blocked. A certain layout of counter, popular with some of us has, in my view, not much to recommend it. This is a counter piled high with goods with a seally fixed with a counter piled high with goods, with a small space where one may just see the head and shoulders of the proprietor; a suggestion that one customer only at a time is expected. In the store or multiple trade the dispensing returns, denuded of all overhead and salary charges, cannot amount to much.-Yours, etc.,

EXPERIENCED (19/3).

# Subscribers' Symposium

For interchange of opinion among "C. & D." readers and brief notes on business and practical topics

As Others See Us

While a customer, who is a Member of Parliament, was awaiting his prescription being compounded, I mentioned the fact that Mr. William Bennett, who had just been elected for a London constituency, was a chemist. He displayed much interest on hearing this, and said it was time that chemists were strongly represented in the was time that chemists were strongly represented in the House, as he considered that they had been badly let down over their dispensing fees. He also stated that bluff was no good, but that a strong attitude, as taken by the medical profession for their interests, should have been taken and maintained by chemists, when better results would have been secured.—Arkay (8/3).

#### Water-white Linseed Oil

My old master with whom I served an apprenticeship in a small Midland town was not only a good business man but also an expert with the brush—indeed, his artistic but also an expert with the brush—indeed, his artistic faculties were far beyond the average. He was extremely particular about the linseed oil with which he mixed his pigments. Every batch of the oil was examined on delivery for colour: the pale oils were partially put aside, portions bottled into pale spirit bottles, lightly corked, and exposed in the windows of a room with a southern aspect, where the oil was left to bleach until such time as the possessor considered it fit. One day my instructions were to fill the contents of half a dozen bottles into 2-oz. and 4-oz. French vials and dispatch bottles into 2-oz. and 4-oz. French vials and dispatch them to his friends, who highly valued this form of pigment medium. Requests from all parts came for these small bottles for artists—but they were only supplied to favoured individuals.—Antiquus (5/3).

# Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

W. A. B. (5/3).—The letters "F.R.P.S." stand for Fellow of the Royal Photographic Society.

E. C. T. (9/3).—Foot-bath salts.—See C. & D., 1928, I, 642.

J. B. (4/28).—Flu Powder.—The components of this powder were found on analysis to be aspirin and phenacetin.

Tanker (16/28).—Tank Developer.—The formula to which you refer ("British Journal Almanac," 1925) is presumably the following:—

Metol ... Sodium sulphite  $\begin{array}{cc} 56 \text{ gr.} \\ 2\frac{1}{2} \text{ oz.} \end{array}$ ... ... ...  $\frac{1}{2}$  oz. 22 gr.  $3\frac{1}{2}$  oz. Hydroquinone ... ••• ... Sodium carbonate ... ••• • • • 48 gr. 120 oz. Potassium bromide ••• Water

It is stated that the solution "can be used with complete success for as long as eight months in three-gallon tanks or larger, with an occasional addition of fresh solution, provided that a floating top be kept on the tank when not in use."

W. A. M. (11/38).—Your puppy seems to be suffering from a round worm that takes up its abode in the stomach and bowels of a dog. It is quite common in young puppies, in fact, a very large proportion of suckling puppies die from this cause within a few days of their life. The itch is characteristic of worms, more so in the young. External applications, though useful are not of so nuch importance as medicines given internally. Vermifuges, such as santonin, areca, etc., in doses according to size and age of the animal should be given, with or before a dose of ol. ricini once or twice. The strength must be kept up with cod-liver oil and malt. A good useful remedy is Parrish's syrup 3iv. and Fowler's solution \$\text{m} 30\$, mixed, and a dose given occasionally according to size and age of the animal. Avoid all stimulating foods. Wash the animal once or twice daily in alkaline water, such as chalk and lime water or zinc oxide and lime water or any preparation likely to allay the itch. Any of the following may be tried:—

Liq. arsenicalis ... 5ss.
Tinet. zingib. ... 3j.
Mag. sulph. ... 5iv.
Aq. ... ... ad 3iij.
Dessertspoonful twice daily after food.

Liq. arsenicalis ... mxl.
Syr. zing. ... 3ij.
Aq. ad ... 5vj.
A teaspoonful three times a day.

Zinci oxidi ... ... 3ij. Aq. calcis,
Glycerini ... ... 3ij. Ol. olivæ ... aa. 3ij.
Aq. carbol. ... gr. v-x
Aq. rosæ ... ad 3iv.
Apply to skin frequently.

Apply to the

A. E. S. (16/38).—Chlorine in bedding.—The Rag Flock Regulations to which you refer became operative in 1912 (S.R. & O. 578), and Article I reads as follows:—
"Flock shall be deemed to conform to the standard of cleanliness for the purposes of sub-section (1) of Section I of the Act when the amount of soluble chlorine, in the form of chlorides, removed through washing with distilled water at a temperature not exceeding 25 degrees Centigrade from not less than 40 grammes of a well-mixed sample of flock, does not exceed 30 parts of chlorine in 100,000 parts of the flock."

S. & B. (16/83).—LOEFFLER'S METHYLENE BLUE SOLUTION.

—This stain has the following composition:—

Saturated alcoholic solution of

Saturated alcoholic solution of methylene blue ... a... ... 30 c.c. Solution of caustic potash (1 in 10,000) ... ... ... 100 c.c.

R. I. (26/82).—There is no visible difference between the two camples, but if you evaporated an equal quantity of each to dryness and weighed the residue this would definitely settle the question as regards extractive matter.

# Legal Queries

H. C. (25/2).—The title "Digestive Pills" alone is not liable to medicine-stamp duty. But this title becomes dutiable if a reference is made to a part or organ of the body, or to the operation of the pills upon a part or organ of the body. Thus, a title such as "Digestive and Liver Pills" would be dutiable.

H. N. J. (20/83).—If the preparation is held out as beneficial for the prevention, cure or relief of any ailment, or if a claim is made to a proprietary right in the preparation, it will be liable to medicine stamp duty. However, it is not possible to give a definite reply to your inquiry, since you have not submitted the label and advertising matter. Further, since it contains a scheduled poison, it may be sold only by chemists.

C. P. (14/83) has an account outstanding against a customer who has made no payment for over three years, although he has admitted verbally that he owes the money. Can "C. P." still take proceedings for the recovery of the amount due? [Even if the debt was incurred more than six years ago, "C. P." is entitled to sue for its recovery, as the customer has made a payment on account within the past six years. A verbal acknowledgment is not sufficient to keep a debt from becoming statute-barred.]

Rent (14/83) is the tenant of a combined house and shop. Originally, he held the premises under a lease which started on January 25, 1899, and the rent has since been paid on the 25th of January, April, July and October. When the lease expired the tenancy continued on the old terms without any written agreement, and "Rent" is now in possession under the protection of the Rent Restriction Acts. Will the landlord be able to increase the rent without notice when the Acts expire? If "Rent" wishes to leave, how much notice should be given? [We cannot say what the position will be when the Acts expire; but if the landlord has already terminated the tenancy by proper notice he will, presumably, be entitled to increase the rent immediately. If "Rent" wishes to terminate the tenancy he should give six months' notice expiring on January 25. We advise him to consult a solicitor if he wishes to make sure how he stands.]

X. Y. (13/2) asks if it is legal for a limited liability company, having a registered chemist and druggist on the directorate, to sell industrial methylated spirits to medical men, institutions, etc., provided they hold a methylated spirit retailer's licence? [Under the Statutory Rule and Order of December 7, 1925, the company must be one entitled to keep open shop for the retailing of poisons under the Poisons and Pharmacy Act, 1908; that is, its sales must be under the control of a duly registered chemist or chemist and druggist. Further, the permission of the Commissioners of Customs and Excise must first be applied for and obtained, and sales are subject to certain conditions laid down in the Order, one of which is that the use is to be for a purpose other than internally as a medicine. The spirits may be supplied only on a written order of a doctor, dentist, or veterinary surgeon.]

# Retrospect of Fifty Years Ago

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Reprinted from
The "Chemist and Druggist," March 15, 1879
The Sale of Proprietary Medicines

The Sale of Proprietary Medicines

It would be fantastically utopian to expect much aid from the proprietors of established patent medicines in view of the serious and widespread evil of offering proprietary articles at a merely trifling percentage over the cost. It may, however, be as well to remind them that their interests are rapidly falling into the hands of co-operative stores and cutting shopkeepers, who will care as much for them as they have done for their own competitors. The end of it will assuredly be that the best chemists throughout the country, and there are some thousands of these remaining yet, will not care to trouble themselves about a trade the profits of which will not pay for investing in the stock. Other patents will spring up, the owners of which will cater for the friendship of the chemist who does not out prices, by guaranteeing that their products shall be supplied to none but such. . . .



[Commenced C. & D., July 5, 1924]

Quadrivalent.—The combining capacity or chemical value of an element is termed its valency, and is usually measured with regard to hydrogen. An element such as chlorine, one atom of which combines with one atom of hydrogen, is said to be univalent; oxygen, one atom of which combines with two atoms of hydrogen, is divalent. Elements of valency three are ter or trivalent, of valency four, quadrivalent, and so on. The chemical equivalent of an element is that quantity of it which combines with or replaces one part by weight of hydrogen. The atomic weight of an element may replace one or more atoms of hydrogen, according as the element is univalent or polyvalent. The relationship

atomic weight echemical equivalent, is thus evident from the foregoing. See also

equivalent, is thus evident from the foregoing. See also Valency.

Qualitative Analysis.—Analytical chemistry is that branch of chemistry having as its specific aim the decomposition (analysis) of compound substances and the identification of their constituents. If the determination of the constituents is only concerned with their nature the analysis is qualitative. This has for its aim the preparation of the constituents of an unknown substance into forms or conditions already known, so that these new forms or conditions may furnish definite proof of the presence of the individual component substances. The value of these methods depends on two conditions: they must be absolutely reliable, and must attain the end in view as rapidly as possible. To carry out qualitative analysis the primary essentials are a knowledge of the chemical elements and their most important compounds, also of the fundamental laws of chemistry. The object of a qualitative investigation may be two-fold, viz., either to prove whether a particular substance is, or is not, present in a material, or for the detection of all the constituents of a chemical compound or mixture.

Quantitative Analysis.—The purpose of a quantitative analysis is to determine the quantity of the constituents present in a compound or in a mixture. The methods employed vary with the nature of the substance to be determined, so that in every case a qualitative analysis should precede the quantitative one. In quantitative analysis two essentially different methods of procedure are distinguished: gravimetric analysis (analysis by weight), volumetric analysis (analysis by volume). In gravimetric analysis the emponent to be determined in separated from a solution in the form of an insoluble compound of known chemical composition, and the weight of the compound is then determined; from this the amount of substance present is calculated. Gravimetric methods are divided into direct analyses and indirect analyses. In the case of a direct analysis the substance to be determined is separated from the solution in the form of an insoluble compound and weighed. The indirect method, e.g., to determine the relative amounts of each of two substances in a mixture—two chlorides, etc., depends on the fact that when two or more substances are made to undergo the same chemical treatment they experience a relatively different change of weight. The indirect method appears simple on paper, but in actual practice impossible values are obtained, and caution is requisite in calculating. A volumetric analysis is carried out by causing the reaction to take place by means of a measured amount of a solution of determined concentration are known as standard solu-tions, and for convenience of calculation such standard

solutions are defined by their relationship to a normal solution, the latter containing one gram equivalent of the reactive substance. For convenience in work fractional normal solutions are used. The process involved in the comparison of an unknown solution with a standard one is called titration. Electrometric titrations may be divided into two classes: Conductometric titrations, in which the end point is detected by measuring the change of electrical conductance during the titration and plotting the value thus obtained in a graph; potentiometric titrations, in which the end-point is detected by measuring the change in potential of a suitable electrode during the titration. There is a great difference between the principles upon which the two methods are based, and it is not entirely correct to refer to either of the two methods by the general term "electrometric" titration.

Quantum Theory.—The quantum theory originated in an attempt to account for certain phenomena in the emission and absorption of radiant energy. It was originally formulated by Planck in 1901 to account for the observations in the distribution of energy in the radiation from a black body. Careful measurements in the energy distribution had been made by O. Lummer and E. Pringsheim (1879-99), but all attempts to bring these observations into accord with the deductions of classical dynamics ended in failure. The fundamental modification introduced by Planck consisted in discarding the principle of equipartition of kinetic energy. The equipartition principle assumed interchange of energy in a continuous manner. Planck assumed that the exchanges of energy between matter and ether, instead of taking place in any proportion whatsoever, can only take place by steps; that is, in multiples of some small energy unit, the energy unit itself being a function of the vibration frequency concerned. Einstein has extended Planck's quantum theory to the calculation of specific heats. A recent text-book in physical chemistry should be consulted for fuller information.

Quartation.—The operation of combining silver with gold so that the latter metal forms one quarter of the whole; the gold is then separated from the silver (and at the same time freed from its impurities) by means of nitric acid.

Quarter Days.—The annual quarter days upon which rent is usually payable are Lady Day, March 25; Midsummer Day, June 24; Michaelmas Day, September 29; and Christmas Day, December 25. The half-quarter days are February 8, May 9, August 11 and November 11. In Scotland the quarter days are February 2, May 15, August 1 and November 11.

Quarter Sessions.—A court of criminal jurisdiction presided over by the justices of the peace for a county or, in the case of a borough, a recorder. Quarter sessions must be held at least four times a year and has jurisdiction to try certain indictable offences and hear appeals from petty sessions (q.v.).

Quartz.—Quartz is anhydrous silica (SiO<sub>2</sub>), and is the most abundant of the minerals comprising the earth's crust, and one which appears in a great variety of forms. Crystals of quartz possess no distinct cleavage; they break with a bright glassy conchoidal fracture, and small fragments have sharp splintery edges. The mineral, s.g. 2.65, readily scratches glass and cannot itself be scratched by steel. Quartz is very resistant to chemical reagents and weathering processes. It is insoluble in acids except hydrofluoric, but is attacked by caustic alkalis. Quartz undergoes remarkable changes when heated. At 1,670° it melts to a viscous liquid, so that the exact m.p. cannot be determined. The molten mass, not cooled too slowly, sets as a glass with s.g. 2.213. This vitrified silica is known as silica glass or quartz glass. There are a large number of varieties of quartz differing widely in their external appearance, and these have from earliest times been distinguished by special names. The following are the most important varieties: Crystallised quartz with vitreous lustre, rock crystal, amethyst, cirtine (topaz), smoky quartz and cairngorm, rose quartz, milk quartz, sapphire quartz, prase; cryptocrystalline quartz (chalcedony) with waxy lustre, agate, onyx, cornelian,

# The C.&D. Commercial Compendium

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sard, chrysoprase, bloodstone; quartz with enclosures, avanturine quartz, cat's eye and tiger eye, hair stone, needle stone, Eisenkessel; compact varieties with dull lustre, jasper, flint, hydrian stone, horn stone, bulrstone. Other varieties are sand, sandstone, quartzite (q.v.), vein quartz, oilstone, whetstone. Some of these varieties are used in jewellery as semi-precious stones, in engraving, balance weights, pivot supports, agate mortars. "Brazilian pebble" is a clear rock crystal from Brazil and Madagascar used in optical instruments. Other uses of quartz are as abrasive, grindstones, millstones, whetstones, sandpaper and sandblast.

Quartz Apparatus.—Quartz, when heated to 1,670°, melts to a viscid liquid and can be cooled to a vitreous mass. This vitrified silica has a low coefficient of thermal expansion, and can be subjected to sudden changes in temperature without cracking; it is a non-conductor of electricity even in a moist atmosphere, and it allows the passage of ultra-violet rays. On account of these properties it is used for making scientific apparatus. The use of the word "quartz" to describe apparatus made from this is not strictly correct as the material is no longer quartz, but this description is in common use in chemical laboratories. Gaudin, in 1839, produced fibres of fused quartz a foot in length, and also small beads. Depretz, in 1849, made a fused quartz tube by passing a current through a carbon rod embedded in particles of quartz, but it was not until the discovery of the electric arc and the development of the electricarc furnace that provided the means of obtaining higher temperatures in fusing quartz. Although it is not possible to change the physical properties of crystal quartz, better ways and means have been found to fuse it. In the selection of a piece of quartz apparatus three points are to be considered: the purity of the quartz; absence of bubbles; uniformity. The most recent method of manufacture is as follows:—Water-white quartz crystals containing less than 0.2 per cent. of impurities are flaked off by a blow torch and those from the outer surface off by a blow torch and those from the outer surface discarded. These particles are then washed in acids. Sand (99 per cent. SiO<sub>2</sub>) can be used, but is not pure enough to make the best fused quartz. The quartz crystals are then placed in a graphite crucible which is placed in a vacuum arc furnace and the temperature raised to melting point. During the fusion the pressure is kept as low as possible. The mass of fused quartz produced is clear and transparent, and contains relatively produced is clear and transparent, and contains relatively few air bubbles. The molten mass of fused quartz is then subjected to very high pressure, and practically all the remaining bubbles are collapsed or reduced to microscopic size. Pressure is also employed to blow the fused quartz into rods, tubes, etc. Combustion tubes.— On account of the high fusion point, low coefficient of on account of the high fusion point, low coefficient of expansion and moderate price, fused quartz is well suited to the requirements of combustion tubes, and by the above process uniformity of composition, bore, outside diameter and wall thickness have been made possible, and fused quartz tubes are as straight and as uniform as glass. The advantages are the tubes are gastight at high temperatures, and do not sag like clay and porcelain. They are glazed inside and outside, and have the appearance of lustrous silk of a silver-grey colour. The tubes are obtainable in  $\frac{7}{8}$ -in. and 1-in. bores, and in three lengths, 24, 30 and 31 in.. and can be had with one end reduced to  $\frac{1}{8}$ -in. bore for 1 in. Crucibles.—
These are made from fused quartz of high purity free from bubbles, and can now be produced true in shape, clear and transparent, wall thickness of about 1.75 mm., height and diameter 38 mm. caracity 25 mile. They are height and diameter 38 mm., capacity 25 mils. They are particularly suited for ignitions where filter papers are burned and the collected or oxidised precipitate weighed; for fusions with salts or miscible substances for fusions with saits or misciple substances when brought to the melting temperatures of the combined compounds; for moisture tests where materials are weighed before and after drying; volatile matter determinations, for which quartz is particularly well suited, because compounds do not adhere to the hard, highly glazed surface, also because the operation can be observed and the value controlled for demonstration purposes. The and thereby controlled for demonstration purposes. The

cost is about one-twentieth that of a platinum crucible and checking and protection is nil. Caustic fusions, however, cannot be done in quartz crucibles.

Quartz Lamp.—See Ultra-Violet Rays.

Quartzine.—A finely-fibrous form of silica, said to differ in its optical qualities from quartz and the fibrous silica of chalcedony.

Quartzite.—A rock composed of quartz and consisting of quartz grains with a siliceous cement formed by metamorphosis of sandstones. Usually greyish or brownish, sometimes white in colour, s.g. 2.56-2.68. The fractured surface is smooth. It is not used as a building stone, owing to difficulty in dressing, but is employed in engineering work, for road metal, in grinding and for cooling surfaces and acid towers.

Quassation.—In pharmacy, this is the operation of reducing roots and tough bark to small pieces to facilitate the extraction of active principles.

Quassia.—The original quassia introduced into medicine in the middle of the seventeenth century was derived from Quassia amara, L., a small tree indigenous to Northern Brazil, Guiana, Venezuela, and Panama. The wood of this tree is still used in France and Germany, but is not official in this country. It is a small tree with handsome crimson flowers. The wood is imported from Surinam (Dutch Guiana), and is distinguished in Continental commerce as Surinam quassia, that of the quassia of British commerce being called Jamaica quassia, Picrasma excelsa, Lindl. It is common on the plains Picrasma excelsa, Lindl. It is common on the plains and lower mountains of Jamaica, and found also on the islands of Antigua and St. Vincent. It is called in the West Indies the bitter wood or bitter ash, as it somewhat resembles an ash tree in appearance. Unlike the Surinam quassia, the tree bears small green flowers and black shining drupes the size of a pea. When it was found that the Jamaica quassia possessed similar properties and was obtainable of much larger size it was preferred, and since the end of the seventeenth century has been the quassia wood of British commerce. In 1791 it was imported not only for its useful timber, but the bark was recommended in putrid fevers and fluxes. The quassia introduced into the Lorder Physics in 1799 was in the Lorder Physics in 1799 was a six of the 17 introduced into the London Pharmacopæia in 1788 was the Surinam quassia, but in the edition of 1800 it was superseded by the wood of *Picrasma excelsa*. The bark of this tree is dark grey or nearly black. The wood is usually sold cut across the grain by large knives like chisels, and the chips are kiln-dried to prevent them from becoming mouldy, as the wood often contains much projecting. Nevertheless, dark grey patches often occur. moisture. Nevertheless, dark grey patches often occur in the wood, caused by a fungus, but such pieces should be used only in the preparation of agricultural insecticides. For pharmaceutical use the wood is sold in the form of turnings and raspings, the former being obtained in the manufacture of the bitter cups of quassia wood at one time so much in fashion. Jamaica quassia is the kind so largely used for the preparation of horticultural insecticides and fly papers. For pharmacognostical purposes the woods of the Surinan and Jamaica quassia are easily distinguished. In the former the medullary rays are usually only one cell wide, and the wood contains crystals of calcium oxalate which are not present in the wood of Jamaica quassia. In the latter also the medul-lary rays are usually two or three cells wide. Quassia chips partially exhausted by water and re-dried have been offered in commerce, but may be recognised by yielding only 2.7 per cent. of aqueous extract as compared with 8.1 per cent. from the natural wood and by the less bitter taste. The active principles of Jamaica quassia are a-picrasmin and  $\beta$ -picrasmin, also a very small amount of a crystalline bitter principle melting at 234°, as well as a minute quantity of a yellow crystalline substance which exhibits a magnificent blue fluorescence in acidified alcohol. The wood does not contain tannin. The bitter principles in the Surinam wood have been regarded as distinct.



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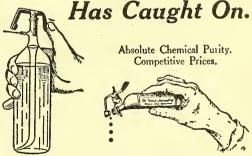
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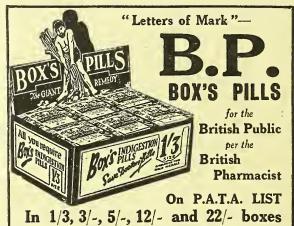
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2/per carton
containing 6
Tablets

Novopine

6/- per box containing 3 Cartons

Sparkling Pine Bath Tablets

Your wholesaler stocks it!



Nonn enjoys phenomenal sales. Are you getting your share? If not, get in touch with us now for a supply of show material and literature. The free booklets will be found very successful in building big business in Nonn and a special booklet showcard is now available. Also dummy cartons and an attractive circular design, as shown. This latter can be had either as a showcard to stand or to hang-or ready gummed as window bill. Get your full share of trade by displaying Nonn!

PRICES AND PARTICULARS. Nonn is supplied in RED cartons for MEN and in BLUE cartons for WOMEN. P.A.T.A. 3/- per carton. Wholesale 27/- doz.

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15 c.c. BOTTLE OF INFLUCINE - 2/6
SPECIAL ATOMISER - - - - 3/6
COMPLETE OUTFIT (comprising above) - 5/Subject to Usual Trade Discounts.

## Drug & Chemical Corporation, Ltd.

204-206 Great Portland Street, LONDON, W.1

Telephone: MUSEUM 8658.

Please send post card for our representative to call upon you.

Keep up your stocks of

the world's most famous medicated pastilles. March winds and cold spells will bring you good business.

## An Apology

Although we are working day and night to fill orders for "GRIPS," we have not been able to send full quotas to all our dealers. We are endeavouring, however, to keep everyone supplied and strongly advise early ordering to avoid delay in delivery.



Distributing Agents to the Wholesale and Retail Chemists' Trade:

THOS. CHRISTY & CO., 4/12 OLD SWAN LANE, LONDON, E.C.4



For 50 YEARS

Specialists in

**FLA VOURS** 

Fruit Essences and Harmless Colours

Bulk or Packed

ALL PRODUCTS GUARANTEED TO CONFORM TO THE FOOD & DRUGS ACT

MOOR STREET & ALBERT STREET
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Phone: Central 1267.

Wires: "Blacwelaze, B'ham."

## "YEAST FOR VITAMIN B."

Yeast specially prepared for medicinal purposes.

GUARANTEED ABSOLUTELY PURE,

MIDGLEY & PARKINSON, LTD., WARREN WORKS, PUDSEY, LEEDS.

## PHOSPHATE OF SODA, Pure

For Food Purposes
ASK FOR SAMPLE AND PRICES.

PERRY & HOPE, LTD.

Forth and Clyde Chemical Works, NITSHILL.
Telephones: Giffnock 414 (2 lines). Telegrams: "Perryope, Nitshill."

## Dr. BENGUE'S BALSAM

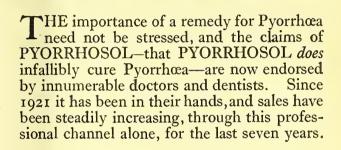
RHEUMATISM, NEURALGIA, GOUT.

Dr. BENGUÉ'S ETHYL CHLORIDE.
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PULMO (BAILLY).—FORXOL.—OPOBYL.
ANESTILE.—NARCOTILE.—HEMOSTYL.
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NEOPANCARPINE, RICARD'S CACHETS.

BENGUÉ & CO., LTD., MFC. CHEMISTS, 24 FITZROY STREET, LONDON, W.1.

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# rrhæa



The following testimonial (but one of many hundreds) indicates the esteem in which PYORRHOSOL is held:-

Harley Street, W.

"I see on an average six to eight cases of Pyorrhæa daily, and with all my cases I have achieved splendid results (by using Pyorrhosol). I had Pyorrhæa myself for twenty-five years, and it is due to your preparation that I speak in the past tense."

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PYORRHOSOL IS NOW BEING PLACED ON THE MARKET, SUPPORTED STEADY ADVERTISING. Pyorrhœa is so prevalent, and the lay public is so quickly becoming alive to its dangers, that Pyorrhosol—having such powerful medical testimony behind it—is sure of a ready market. On the advice, or with the approval, of their dentists, many people will be demanding Pyorrhosol this Spring.

Test PYORRHOSOL yourself. Or send for convincing literature, with full details as to trade discounts and sales aids.

PYORRHOSOL LTD., 3 LANCASTER PLACE, STRAND, LONDON, W.C.2







A perfect blend of Malt Extract made from selected Barley Malt only and the finest Norwegian Cod Liver Oil.

## "EDME"

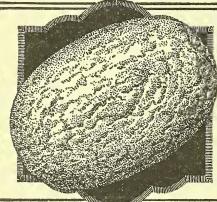
## Malt Extract with Cod Liver Oil

As used in the Leading Hospitals.

Customer's own name and address printed on label.

Write for Samples and Trade Terms to:

EDME Ltd., 122, Regent St., LONDON, W.1. Telephone: REGENT 6719. Telegrams: "EDME, PICCY, LONDON,"



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## Bath Rusks

Unsolicited testimonials daily for Carr's famous Bath Rusks which are ideal for babies and young children. Scores of letters from grateful mothers. Recommended everywhere.

Made only by

CARR'S of Carlisle

The Oldest House in the Trade

Season-1928



Agen: for Scotland: ANDREW STEVEN, 7 York Street, Glasgow.

## COD LIVER OIL

GUARANTEED GENUINE. FINEST PURE LOFOTEN.

Manufacturers :

BRÖDR. AARSÆTHER A/S, Aalesund, Norway.

LARGEST MANUFACTURERS OF COD LIVER OIL IN NORWAY.

SPECIALITY—Cattle and Poultry Feeding Oils.

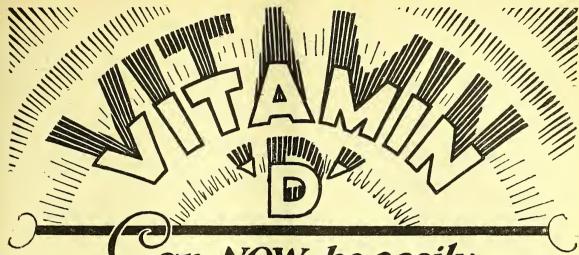
Stocks always held in London.

In 25-gallon tin-lined barrels.

SOLE AGENTS FREUDENTHEIL. SMITH & CO

Tel.Add.: "FREUDENRUF." 21 Mincing Lane, LONDON, E.C.3. Tel.: ROYAL 6600.

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## LIQUIDS, OILS, FOODSTUFFS, & PROPRIETARY ARTICLES

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The 'SCHEIDT' method of CONTROLLED IRRADIATION

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NO CHANGE IN ODOUR, TASTE OR FLAVOUR.

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The sale of Matte Real is an extra sale, not a substitute sale, therefore the profit is an actual one.

Chemists will find that a small display of packets on the counter leads to satisfactory results to their customers and to themselves.

or 100

## Extra Sales

No Trouble **→33½** % Profit

The interest in Dietetics makes it easy to introduce to your customers this &z PALATABLE BEVERAGE, DIURETIC, INVIGORATING. for use in all cases of Gout, Rheumatism, Arthritis, Neuritis, Dyspepsia, Diabetes.

We should be pleased to send you a sample packet for trial.

#### TERMS:-

Cases containing the following sizes: Carriage Paid.
1 Month. 24 x 1/6

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less 331/30/0

Show Cards, Window Bills, Circulars and Handbills are

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400 packets 1/6 size | Carriage Paid. 1 Month, or 200 2/9 ,, less 431/30/0

Peek, Bros. & Winch, Ltd., 20 Eastcheap, London, E.C.:



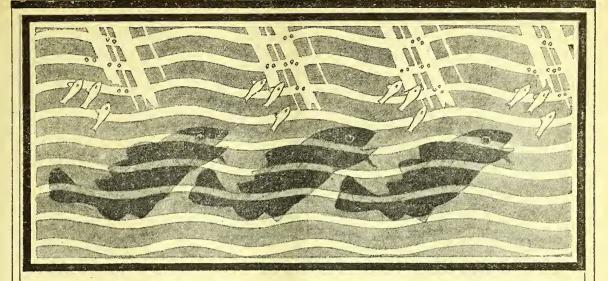
Terms and full particulars on application to the Sole Manufacturers:

THE STANDARD YEAST CO., LTD.

Lamb Distillery

CHISWICK, LONDON, W.4

Telephone: CHISWICK 3370-71.



# Cod Liver Oil provides the Vital Elements of Healthy Growth

A perfect diet depends upon the perfect balance of its essential elements.

Cod Liver Oil presents the vital foodselements, Vitamins A and D, in adequate quantities. Its use prevents the danger of giving overdoses of the one or the other. The use of Cod Liver Oil is the safeguard against this danger.

A child dosed with Vitamin D alone might be free from rickets, but suffer from impoverished health owing to lack of Vitamin A.

In nature Vitamin D is generally found associated with Vitamin A. Cod Liver is the natural source of both.



National Committee for Promoting the Consumption of Norwegian Cod Liver Oll, Bergen, Norway.

NORWEGIAN COD LIVER OIL

FABRITIUS, OSLO

THE WORLD-RENOWNED

## MARIENBAD WATERS

SALTS MAY NOW BE OBTAINED FROM YOUR WHOLESALER.

Wonderful Offer. Waters less 30%. Salts, Powders, etc., less 35% on £2 Assorted Order.



### SPRING SALT **POWDERS**

Most excellent for cleansing the system. Better than Seidlitz Powders. Per box of ten powders (5 gr.) 1/8



#### MARIENBAD SOAP

Invigorates; massaging for all Rheumatism, Gout, etc. Per box of 3 tablets, 3/6



## KREUZBRUNNEN and FERDINANDSBRUNNEN

An efficacious remedy and cure for all affections of the Stomach, Gout, Obesity, Diabetes, Gall and Liver complaints. 1/9 Per large bottle

## RUDOLFSQUELLE

For Rheumatism, Uric Acid, Diathesis, Gravel, Gallstones, Bladder, Cystic Catarrh and Chronic Diseases of the kidneys. 1/9 Per bottle



#### **BRUNNEN SALTS**

Marienbad Natural Mineral Spring Salts for all digestive disorders and troubles of the stomach and for quick evacuation of the bowels. Highly recommended and prescribed by the doctors of Marienbad.

> Per bottle 3/~

Sole Importers:



## PINE - NEEDLE **EXTRACT** Smells of the Pine Forest (For Bath)

Most invigorating, puts new life into the user.

Per bottle 1/-

These are the only genuine Marienbad Preparations.

Write for Booklet.

NILTSIM LABORATORIES 34 London Wall, London, E.C.2



## Saint-Raphael

Tonic, Restorative, Digestive Wine.

Known throughout the World, and prescribed in all cases of ANÆMIA, DEBILITY, and CONVALESCENCE, to Young Women, Children and the Aged.

DOSE: One wine-glass after the two principal meals.

Recommended by—
PROF. BOUCHARDAT, Professor of
Hygiene, Paris Faculty of Medicine.
Dr. MacNAUGHTON JONES, Loudon, England.

"For more than thirty years St. Raphaël Wine has been exclusively prescribed, with success, in the Paris hospitals as a pure touic, by eminent physicians, such as Magendie Ros on Chomel, Velpeau, Requin, Monneret, Trousseau, Grisolle, Laënnec, &c."— Union Medicale, May 8 and June 12, 1873.

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Cie du VIN SAINT RAPHAEL, Valence, Drome, FRANCE.

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OPTIMUS FILTERS

The most efficient household filter.
Made in different sizes in earthenware, glass and tourist patterns.
Stocked by leading wholesalers.

Write for terms to the manufacturers.

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(MAWSON & PROCTOR, LTD.)
NEWCASTLE-ON-TYNE.

## **TOPPERS**



200 Varieties Any Colour.

A suitable Compositlon Stopper will enhance the selling value of your package. Let us fit your Bottles and quote you.



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Diamine House, Middle Lane, Hornsey, LONDON, N.8

## Record-breaking success

## for the new Chocolate Flavoured Horlick's

Factory fighting against time to fill orders

· · Chemists say they have never seen anything take hold so instantly . . .

HORLIC Chocolate Flavoured Malted Milk

This attractive display box is sent free with every f.2 introductory parcel

P and down the country, the trade tells the same story:

Horlick's Chocolate Flavoured Malted Milk - introduced February 15th - has been an outstanding success from the very first day it appeared.

Few products have ever been known to capture the public taste so quickly.

Chemists — sold out — regretfully turn customers away, promising delivery at the first possible moment.

## OVERTIME AT THE FACTORY

At Slough the factory is working

overtime to keep the supply abreast the overwhelming demand.

Congratulations come from every part of the country. Prophecies of unusual success are made by friends in the trade: Chocolate Flavoured Horlick's, they say, will be remembered as the most striking event, in the chemist's business, of recent years!

## WITHDRAWAL OF SPECIAL **£2 INTRODUCTORY PARCEL**

There are only seven more days during which the special introductory offer is to be open. After March 30 further orders cannot be accepted for the parcel, con-

taining £2/16/0 worth of Horlick's but costing only £2, which has been so popular with the trade.

Order now and take advantage, not

only of the generous discount thus allowed, but also of the attractive display material included with this parcel. It will remind your customers of the advertisements they have seen in one of the national or provincial dailies or women's magazines in which the big Horlick's campaign is running. It will recall to them what the advertisements say - and they will buy then and there!

Send in your order today — to us or to your regular wholesaler. Horlick's Malted Milk Co., Ltd., Slough, Bucks.

Chocolate flavoured Malted Milk

Colourful cut-outs which hold a 3/6 size carton—bright transparencies, size 16 in. by 4 in.

HORLICK'S Chocolate Flavoured Malted Milk



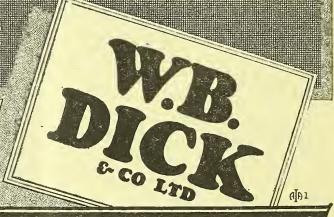
White & Half White Oils. B.P. White & Yellow Petroleum Jellies

QUODATTONS & SAMPLES

26 GROSVENOR GARDENS, LONDON - - S.W.1.

Telephone: Sloane 3461 (7 lines). Telegrams: "Dicotto, Sowest, London."

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Best qualities Yellow and White B.P. Red Veterinary and Green.

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TECHNICAL WHITE & HALF-WHITE OILS
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REGISTERED FOR OUR WELL-KNOWN BRANDS OF CERESINE WAXES.

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WHITE BLEACHED CARNAUBA WAX VARIOUS GRADES
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Works at Stratford, E.

## SOL=VO SANITARY ROLLS & PACKETS.



# SOL-VO

THE BEST & PUREST

## SANITARY PAPER



per doz.							per doz.		
Three dozen	Rolls	999	7/-	net.	Three dozen	Packets	•••	10/-	net.
Half gross	"	•••	6/6	99	Half gross	99	•••	9/6	99
One gross	29	***	6/-	93	One gross	99	•••	9/-	19
Five gross	99	•••	<b>5</b> /3	99	Five gross	99	•••	8/3	13
		CARRI	AG	E PAID	CASES F	REE.			

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Finest Quality and Appearance.

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Enquiries Invited. Samples Submitted.

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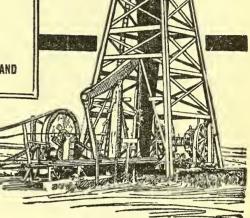
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B.P. AND TECHNICAL QUALITIES Wholesale Trade only.

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Telegrams: "CENTUMVIR, TELEW, LONDON."



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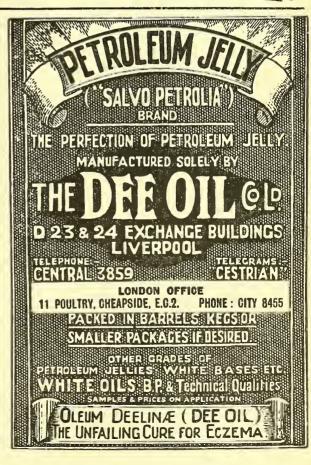
Drummers are wanted by all housewives. Nearly every woman who comes into your shop will have use for one or two Drummers. Remind her by displaying the free sales helps we offer.

28 SAFE AND SIMPLE 4d.

Trade Terms and full range of attractive advertising matter sent free on receipt of postcard to

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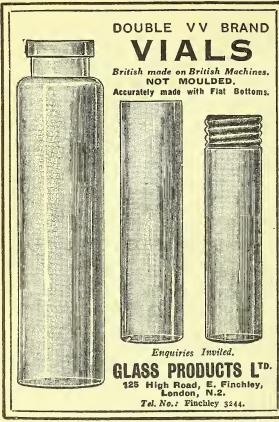
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## The "EVERSAFE"

PATENTED EVERYWHERE

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WITH THE NEW COUPLING and

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HAS SECURED SALES BEYOND ALL PREVIOUS RECORDS.

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No. 2. 3½d. size 2/1 doz. No. 2c. 4½d. ... 2/8½ ... No. 3. 6d. ... 3/- ... Sample Order, 3 dozen assorted, sent 7/9 post free.

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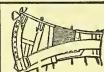
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Cost 12/2 15/3 18/3 21/3 24/3

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SINGLE BELT SUPPLIED.

All sizes in stock ready for delivery per return. List and Terms on application. Catalogues supplied free for distribution.

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"Wimaco" Specialities, British and Best.

AIR CUSHIONS Circular and Square Red Rubber. Highest Quality. Send for List. INSIST ON WIMACO MONARCH SEAL BRAND (Regd.). THERE IS NO SUBSTITUTE FOR WIMACO. WINCHESTER MANUFACTURING CO., LTD., ISLEWORTH, MIDDLESEX



## BRITISH MADE SEAMLESS ENEMAS

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Ingram's well-known series of Enemas are guaranteed made by "Ingrams, London," the original inventors of the Seamless Enema; the "Agrippa" Band Teat, etc. Made from the finest rubbers, warranted not to split, and sold complete in attractive boxes.



A Special Quality Enema. (Large Bulb.)
Fitted complete with Bone Rectum and Gum Vagina
Pipe and Leather Shield.



A Reliable Quality Seamless Enema. (Ordinary Bulb.) Fitted complete with Bone Rectum and Gum Vagina Pipe and Leather Shield.



A Sterilizable Enema for Self Use. Easily handled in any position. Fitted with Aseptic Glass Pipes and Valves or, if desired, with Bone Pipe.



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The above illustrates four of the P.A.T.A. Series. The full series are:

TRADE MARKS.

" Adaptable "

"Eclipse" "Sterilendum" "Zebina"

" Atalanta "

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Obtainable from all Wholesale Houses.

## J. G. INGRAM & SON, LTD.

Makers of Fine Surgical Rubber Products for 80 years,

THE LONDON INDIA-RUBBER WORKS, HACKNEY WICK, LONDON, E.9.

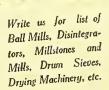


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but reliable.

## **GARDNERS** Patent "RAPID" SIFTER and MIXER.

Gardners "Rapid" Sifter and Mixer will give a perfect blend. The special Internal Agitator ensures accurate sifting and mixing of the materials placed in the machine, irrespective of the diversity of their propor-tions; it necessary, 2 oz. can be perfectly blended with hundredweights.



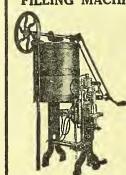
Wm. GARDNER & Sons (Gloucester) Ltd. Gloucester. Bristol Road Grams. : Gardner, Gloucester.

Tel. Gloucester 2288 (2 lines).

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The record makers in speed filling with cleanliness. Foot-Operated Machines. From £5 5s. Hand-Operated Machines. From 36/-.

Soundly constructed, simple in action, easy to clean. NEW PATENT SHALLOW TIN FILLING MACHINES.



Automatic CAN FILLING MACHINES, MIXING MACHINES, CORKING MACHINES.

NEW PATENT ACCESSOR-IES TO "NELSON." and "NAVY" "VICTOR" BOTTLE FILLING MACHINES enable them to be used as Vacuum Fillers, Gravity Fillers or Pressure Fillers at will.

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#### ROBERTS' PATENT MACHINE FILLING

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OnP.A.T.A.

List.



Established 1847

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THE SAFE AND CERTAIN REMEDY.

COUGHS AND COLDS. RHEUMATISM. FOR LUMBAGO, LOCAL **PAINS** AND STIFFNESS.

GENEROUS PROFIT

FREE SHOWCARDS

ALLCOCK MANUFACTURING CO., BIRKENHEAD.

## SIMPLIC (Patent) SOOTHERS

THE BEST MADE SOOTHER ON THE MARKET.

Each Soother packed in Dust-proof Carton.

No stale stock from exposure or bandling.

2 dozen Soothers in Artistic Container, as illustrated.

Made in two sizes.



Ask also for SIMPLIC TEATS Each in Carton.

Packed in Display Outer of 3 dozen assorted Teats.

The Name is a Guarantee of Excellence.

## SIMPLIC SPRINGLESS TRUSS

FOR BATHING AND EVERYDAY WEAR.

Made with Circular, Inguinal or Scrotal Pads.

INSTANTLY ADJUSTED.

FITS EVERY SIZE & SHAPE PERFECTLY.

SUITABLE FOR ALL CLIMATES.

CAN BE WORM AT ALL TIMES UNDER ALL CONDITIONS.

THE PERFECT TRUSS.

The SIMPLIC TRUSS is specially designed for Bathing, just the correct support for each case. It gives

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Makers of Fine Rubber Products for over Sixty Years.

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WRITE FOR CATALOGUE

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## THE CHEMI

42 CANNON ST. LONDON E.C.4

MARCH 23, 1929.

This Supplement is inserted in every copy of The Chemist & Druggist:

## EASTER HOLIDAYS

NEXT WEEK "THE CHEMIST AND DRUGGIST" SUPPLEMENT will be put to press a day earlier than usual. Therefore any advertisements intended for the Supplement of March 30 should reach this Office not later than

## 10 a.m. on WEDNESDAY, MARCH 27

ADVERTISEMENTS RECEIVED LATER WILL BE INSERTED IN THE ISSUE OF APRIL 6.

N.B.—The Offices will be closed from Thursday evening, March 28, to Tuesday morning, April 2. 

Messrs. Orridge & Co., 56 Ludgate Hill, E.C.

May be consulted at their Offices on matters of Sale, Purchase and Valuation

1.—LONDON, S.E.—General Retail Business, in good main road position; attractive shop, fitted in modern style; returns £45 weekly at usual prices; scope for considerable increase; good house; held on lease at reasonable rental; price £2,000.

2.—ROMFORD (Near).—Retail and Dispensing Business, with N.H.I.; returns last year £1,560, with net profit £400; seven-roomed house; profe for business about £800; vendor prefers to sell the property, but would grant a lease.

5.—HERTS.—General Retail and Prescribing Business, with N.H.I.; returns; present rate; about £1,100 per annum; scope for considerable increase under modern management; stock and fixtures estimated to be worth about £500; rent £80; long lease; good living accommodation; terms, valuation of stock and fixtures and a sum for goodwill to be agreed.

4.—LONDON, W.—General Retail Business, with Kodak Agency and N.H.I.; established many years; returns £1,900 per annum; has done much more; gross profit one-third; double-fronted shop, well fitted and stocked; house sub-let at profit rental; price £1,150.

5.-LONDON, N.-General Retail Business, with N.H.I. Dispensing; old established; returns average over £1,300 per annum, under management; scope for large increase under personal supervision; single-fronted shop, fairly fitted and stocked; good living accommodation; back entrance; price to rease under fitted and be arranged.

7.—HOME COUNTY (New Estate).—General Retail and Dispensing Business; returns, under management, between £20 and £25 weekly; single-fronted shop, well fitted and stocked; reat £52; long lease; price £500.

6.—KENSINGTON.—General Retail Business, with Kodak Agency; returns approach £2,500; net profit £700; well-fitted shop, heavily stocked; large house, partly sub-let at £78 per annum; premises must be purchased; further details on appli-

Messrs. O. & Co. desire to emphasize the necessity of a periodical Statement of Account by which means alone Profit, the Value of Business, &c., can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted aud eventually becomes confusion and loss. Valuations for Stocktaking

14.—DEVON.—General Retail and Dispensing Business with Wine and Spirit Licence; average turnover £4,250 per annun; heavy stock; large house; new lease would be granted or the premises may be purchased; no opposition; further details on

8.—SOUTH COAST.—Good-class Dispensing Business; present hands many years; returns last year about £3,350 at very good prices; excellent house in good state of repair; new lease would be granted or freehold may be purchased; price of business £1,900, or £800 goodwill plus value of stock and fixtures.

9.-HOME COUNTY.-Good-class Retail and Dispensing Business, with Kodak Agency; returns, present rate, under the management of a lady, well over £20 weekly; scope for large increase; rent £50; held on lease; price £700.

10.—YORKS.—General Retail Business with Kodak Agency; established 1920; returns £1,000 per annum; scope for increase; net profit £530 (audited accounts); estimated value of stock and fixtures £600; rent £55; rates £12; price £750.

11.—BRIGHTON.—Good-class Retail and Dispensing Business; good position; returns last year £2,109; scope for extension; moderate rent; long lease; price to be arranged.

12.—WEST OF ENGLAND.—Country Retail and Dispensing Business, with Kodak Agency; returns between £1,500 and £1,600 per annum, with scope for increase under more personal supervision; shop occupies good position and is well fitted and stocked; there is a large house; very low rent; held on lease; price for immediate sale £1,200; stock and fixtures estimated at £1,000

15.—LANCS.—Mixed Retail and Dispensing Business, with Kodak Agency; returns exceed £2,000 per annum; net profit about £500; double-fronted shop, well fitted and stocked; good house; moderate rental; held on lease; valuation terms entertained.

Messrs. O. & Co. are prepared to under-take these essential duties and make Special Terms

ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.4

## The Association of Manfg. Chemists, Ltd.

Business Agency, Transfer & Valuation Department

Head Offices-Kimberley House, Holborn Viaduct, London, E.C.1 (and at 2 Bixteth Street, Liverpool).

PARKIN S. BOOTH, Accountant and Valuer. 'Phone: City 1261-2-3

#### BUSINESSES FOR DISPOSAL

1.—CARMARTHENSHIRE.—Old-established Chemist's Business situated in good position on main street, with living accommodation; held on lease for 7-14 years; rent £400 p.a.; returns average £35-40; could be increased; stock approx. £8-900. Further particulars on application. (176)

2.—DURHAM CO.—Chemist Business for immediate disposal; lease can be arranged at £30 p.a. rent; takings £17; Kodak and Ucal Agencies; good living accommodation. (174)

3.—ESSEX.—Two Chemists' Shops for immediate disposal; premises held on lease at rental of £62 and £52 respectively; returns average £1,189 and £792 per annum; price asked £1,000 all at. Full particulars on application. (187)

4.—HULL.—Dispensing and Family Chemist Business in busy thoroughfare (which will shortly become a main road owing to alterations); rent £26 on a yearly tenancy, which can be secured; returns £900 p.a.; lock-up sbop; good prospects for a young qualified man. Further particulars on application. (170)

5.—LONDON, E.—Old-established Retail and Dispensing Business; returns £5,600 p.a.; good living accommodation; freebold for sale, or would consider granting a lease; strongly recommended. Further particulars on application. (188)

6.—LONDON, N.—Old-established Retail Dispensing Cash Pharmacy; well-fitted shop and good stock carried; returns Everage £24 per week, but can be increased with capital; premises include good living accommodation and freehold can be purchased, or lease obtained; fullest particulars on application; no reasonable offer refused. (182)

7.-LONDON, N.-Established Chemist's Business; premises, which include convenient living accommodation, held on lease, 15 years to run; rental £50 p.a.; stock approx. £285; price asked £550, all at. Further particulars on application. (180)

8.—LONDON, N.W.—Retail Dispensing Business on 13 years' lease at £52 per annum inclusive; returns £1.000 p.a.; excellent opportunity for young qualified man. Further particulars on application. (183)

9.—LONDON, S.E.—Old-established Dispensing and Family Business; in good position; returns average £20 per week; well-fitted sbop; good scope for young and energetic chemist; price, all at £550. Full particulars on application. (184)

10.—LONDON, S.E.—Well-situated Drug Stores; premises held on lease, with 17 years to run, at rental of £68 per annum; let off £91; returns average £25 to £30 per week; good opening for N.H.I.; growing district; fullest particulars on application.

11.—MANCHESTER (District).—Old-established Dispensing Chemist Business in good-class suburb on a yearly tenancy at £120 p.a.; let off £117; returns average £27 per week, all cash; excellent opportunity, as quick sale is desired; good reasons. (172)

12.—SHEFFIELD (Suburb).—Chemist's Business; recently established; rent 14s, weekly; rates 7s. 6d.; returns approximately £780; could be considerably increased; offers invited. Further particulars on application. (189)

13.—SOMERSET.—Drug and Photographic Business; premises, which consist of lock-up shop with room at rear, held on lease with 8 years to run at a rental of £88 p.a. inclusive; good scope for live man; price asked £400. (178)

14.—SOUTHEND-ON-SEA.—For immediate disposal, Chemist's Business, in busy centre; premises consist of lock-up shop, with Dispensing and storage room; rent £200 per annum, progressive; returns average £1,500, could be increased. Fullest particulars on application. (175)

15.—STAFFS.—Established Chemist's Business; situated on main road; unopposed in Photo and Optics; returns £24 p.w., scope for increase; lease can be arranged; rent £65 p.a.; price asked, leaso and goodwill, £150, fixtures and fittings £150, and stock approx. £450. Full particulars on application. (179)

16.—WANTED.—Two Chemists' Businesses in or near London; net profits not less than £1,000 per annum. All communications treated with strictest confidence.

Stocktaking and Valuation of Businesses undertaken at moderate inclusive fee. Chemists are invited to consult us in respect of their requirements in connection with sale or purchase of businesses. Chemists in the North are requested to communicate with our Liverpool Offices.

#### ERNEST J. GEORGE

#### CHEMISTS' VALUER

Invites enquiries relative to the following, which have been carefully investigated.

18.—FAMILY BUSINESS in Cheshire, doing about £900, and capablo of increase with personal attention; low rent; special terms to quick purchaser; stock and fixtures about £700.

37.—LONDON, S.E.—Unopposed position, with good house; 12 years' lease; rent £52 p.a.; present turnover £1,430; capable of increase; Kodak and Ucal Agencies; splendid opening for Optics; price £850.

36.—LONDON, E.—Main road position; long lease; rent £120 p.a., with small living accommodation; present turnover (average) £1,560 p.a.; N.H.I., Kodak Agency; price £400; stock at valuation.

35.—SOUTH STAFFS.—An opportunity occurs to acquire established Business, with N.H.I. and photo, doing £500.£600; good house, garden, etc.; price £350.

33.—LONDON, S.E.—Unopposed position in thickly populated district; lock-up; turnover (average) £1,300 p.a., under management; price £550.

31.—LONDON, W.—Good opportunity for energetic man in middle-class Business, doing £1,410 p.a.; gross 40%; long lease; accountant's figures available; price

30.—LANCASHIRE COAST RESORT.—Good Retail Business doing over £2,000 p.a.; net profit £500 approx.; N.H.I. and Kodak Agency; good house attached; shop and house recently improved; 14 years' lease; rent £52, rising to £78 p.a.; will bear investigation; price £1,650, or near offer.

29.—ESSEX COAST.—Owner retiring; established 25 years; Family and Dispensing, with Photo; no opposition; present turnover £1,100; good opportunity for "live" pharmacist; price £700.

28.—SUSSEX COAST.—High-class Pharmacy, fully stocked; Library, 200 books; lady assistant; new fittings; 20 years' lease; rent £96; rates £30 p.a.; average £35 p.w. (only opened 9 months); excellent prospects; N.H.I. 300 per month; house attached, electric all through, 5 rooms, bathroom (h. & c.); price £2,500.

27.—POPULAR LANCASHIRE WATERING-PLACE.
—Good corner Pharmacy; tram route; turnover £2,500; net profit £550; large Photographic trade; excellent scope for general increase for keen man; stock and fixtures at valuation; goodwill to be arranged.

25.—LONDON, W.—Excellent opportunity for unqualified man to acquire unopposed Business doing £700 (with Kodak Agency); price £275.

23.—LONDON, S.W.—Old-established Family and Dispensing Business; with Photo and Optics, also N.H.I.; well-fitted and stocked Pbarmacy; good house, garden, side entrance, etc.; price £1,200 (optical stock and equipment extra, and optional).

22.—MIDLANDS.—Excellent opportunity for young qualified man; Drug Store in growing district; population 4,000-5,000; no opposition; well fitted and stocked; good living accommodation and lease; rent 17s. 6d. weekly; present turnover £750; audited accounts; doctors and nursing home near; good prospects for N.H.I.; live Kodak Agency; qualified man could considerably increase; stock and fittings about £300; total ingoing for quick sale, £500.

19.—Special offer of Wholesale Druggist's Business in provinces; turnover about £10,000; good net profits; capable of much expansion; inquiries invited.

16.—LANCASHIRE COAST.—Turnover, about £1,900; profit £450; stock and fixtures, estimated £1,000; total ingoing £1,500; Kodak Agency; lease can be arranged.

15.—NÖRTH STAFFS.—Family and Dispensing, with Optics and Photography; N.H.I. average 750 scripts per month; turnover, approximately £1,300; profit about £350; price £800; premises can be bought or leased; rent 25s. weekly; living accommodation

11.-LONDON, N.W.-Family and Dispensing, N.H.I., Photo; turnover £1,200; rent £140; sub-lets £103; price £450 (stock and fixtures at valuation).

6.-LONDON, E.-Unopposed position; population 14,000; N.H.I., Kodak Agency, also big Prescribing; capable of considerable increase; turnover £1,517; proft £205; rent £65 per annum; sub-let £52 10s. per annum;

## STOCKS, ETC., VALUED FOR ALL PURPOSES

7 Southampton Row, London, W.C.1. Tel.: Holborn 8158 Tel. 774 and 1000 3 St. Paul's Close, Walsall.

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### CHEMISTS' VALUERS AND TRANSFER AGENTS.

41 Argyle Square, KING'S CROSS, W.C.1

(One minute from St. Pancras and-King's Cross Stations.) 1.—YORKSHIRE COAST.—Light Retail Dispensing and Photographic, in popular resort; returns £2,350; excellent stock; good house and pharmacy; price £1,850.
2.—SOUTH COAST.—Good-class Business, with branch; easily

worked; returns £4,400; living accommodation at branch; price £3,500, or valuation terms arranged.

worked; returns £4,400; living accommodation at branch; price £3,500, or valuation terms arranged.

3.—ESSEX (25 miles out).—Profitable Cash Retail with Branch, returning about £2,000; gross profits £600; audited figures; scope for increase; growing district; fully stocked; price £1,000, or valuation terms arranged.

4.—DORSET COAST.—Profitable Drug Store and Tobacconist's Business, in prominent position; returns £2,150, besides valuable appointment; net profit £555; audited books; smart shop, well stocked, living accommodation over; price £1,500.

5.—LINCS (Death Vacancy).—Profitable Light Cash Retail, with own specialities; returns average about £900; plenty of scope; no near opposition; good house; price, including freehold, about £1,500; worth attention.

6.—NORFOLK.—Old-established Mixed Country Retail; unopposed; returns £1,160; books properly kept; large house, garage, and splendid garden; well stocked; price £1,050.

7.—SOUTH COAST.—Good-class Retail and Photographic Business, with exceptional sale of own specialities; returns, under manager, £1,450; plenty of scope; central position; handsomely-fitted pharmacy and good stock; price £1,050.

3.—WESTERN COUNTY.—Good-class Dispensing and Retail, in residential district; returns £1,450; price £1,000.

9.—LONDON, W.—Good-class Business, with Kodak Agency; returns £2,150; prominent position; net arofit nearly £550.

9.—LONDON, W.—Good-class Business, with Kodak Agency; returns £2,150; prominent position; net profit nearly £550; books audited; price £1,300 cash; worth attention.

10.—LONDON, S.W.—Light Suburban Cash Retail, increasing; returns £1,850; good profits; main road position; well-fixted and stocked; price £1,250.

11.—LONDON, S.E.—Very profitable Cash Retail; returns £124 monthly at full prices; low expenses; no near opposition; scope for increase; price for early sale £500.

Estab. 1870. Telephone : Terminus 3574.

## STOCKTAKING + STOCKTAKING

SAVE TIME & TROUBLE Write to

CHAS. C. MARSDEN, Chemists' Valuer, Transfer Agent and Stocktaker, 44 SHOLEBROKE VIEW, LEEDS.

## BUSINESSES WANTED.

PRIVATE Chemist wants to get into touch with Pharmacist wishing to retire and dispose of Business. Please give full particulars and cash price required (in strictest confidence) to "Brentwood," Marlborough Terrace, Bridlington, Yorks.

PRIVATE Chemist with capital requires sound Business, without Optics preferred, in Middlesex, Essex, Herts, Bucks or Berks; turnover £40 to £60 per week; state full particulars, if living accommodation and cash price; strict confidence observed. 199/12, Office of this Paper.

PRIVATE Chemist requires sound, high-class Cash Business, with Kodak Agency (no Optics) and good diving accommodation; turnover £3,000 to £4,000; Southern or Home Counties preferred. Please give full particulars in strict confidence of returns, gross and net profit, length of lease, etc. 198/15, Office of this Paper.

## SALE BY AUCTION.

BRIDPORT, DORSET.

TOR Sale by Auction, on March 26, 1929, several Houses with Shops having good business frontages in the main streets of the town; a very good Dwelling-house, fronting the main street, well fitted and with spacious lawn and garden, also a spacious water-driven Corn and Grist-Mill.

For full particulars apply to Messes. Nantes, Maunsell & Howard, Solicitors, Bridport.

### BUSINESSES FOR DISPOSAL.

6s. for 50 words or less; 6d. for every additional 10 words or tess, prepaid.

The Advertisea may if preferred have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-,

A BERDEEN.—General Retail and Dispensing Business in suburbs; in main thoroughfare; Kodak and N.H.I.; double-fronted shop, well fitted; returns last financial year over £1,200; scope for increase under personal supervision; owner retiring; the business and property, having excellent living accommodation, is for Sale; low assessed reutal. Apply to Messrs. J. R. Flockhart & Grant, C.A., 1 Bon-Accord Square, Aberdeen.

EAST LANCS.—Mixed Business, with N.H.I. and Kodak Agency; opening for Optics; turnover approximately £1,400; living accommodation available; eplendid opportunity for all-round improvement; price asked valuation, approximately £500; bank references required. 196/13, Office of this Paper.

EAST LANCS.—Old-established, double-fronted; main road; good living accommodation; lease at £65 per annum, or sell freehold property (vendor's); N.H.I. 700 monthly; net profit over £400 (audited); unique opening for Optics; genuine reason for disposal; lowest price £875 for this sound business. For interview or full particulars apply 196/38, Office of this Paper.

EAST MIDIANDS. — Well-established, beautifully fitted corner Pharmacy; now Drug Stores; present takings £30 per week; splendid opening for qualified man; Photographics; good living accommodation, side hall entrance; electric throughout; rent £65; rates £16 10s.; good lease; goodwill-£300; stock and fixtures at valuation, about £850 in all. 196/20, Office of this Boser. this Paper.

LASTERN COUNTIES.—Proprietor wishes to dispose of Drug Store Business in small country town; lock-up shop; low rent; big scope for qualified man; £260. Apply "Radix," 197/21, Office of this Paper.

I EEDS.—£250, or near offer, small neglected Business in thickly-populated district; scope for increase with proper attention; opportunity for young man; turnover £900; net profit £285; N.H.I. average 4,500 scripts; rent and rates 88s. 6d. monthly; small house; must sell; owner bought larger business. Write Marsden, Chemists' Valuer, 44 Sholebroke

I IVERPOOL DISTRICT.—Well-established Business for Sale in growing suburb; modern house; lease; returns about £30 weekly at good profits; price £1.200. Full particulars to genuine prospective buyers only. Apply 196/23, Office of this

LIVERPOOL (centre of city).—Chemist's Business and Premises, also adjacent premises; modern fittings; well-stocked and with a very good connection. Full particulars on application. 145/142, Office of this Paper.

LONDON, S.E.-Well-established, modern, double-fronted, beautifully fitted Pharmacy; main road; moderate inclusive rental; long lease; spacious shop; turnover over £2,000; scope and building development; presents golden opportunity for qualified Optician; genuine reasons for sale; price £1,500. Particulars K. M. Woodman, 28 Inchmery Road, S.E.6.

LONDON, W.—Exceptional opportunity for Pharmacist to acquire good-class Drug Store in centre of high-class residential district (unopposed); present returns nearly £40 per week, steadily increasing, which would be considerably increased by developing Dispensing and N.H.I.; well-fitted, icck-up shop; very low overhead expenses; price £1,100; banker's reference required. 197/31, Office of this Paper.

LONDON, S.W.—Chemist's Business for Sale; double-fronted, dock-up shop; main toad position; returns about £20 week; ample scope for increase; good-lease; reasonable rent; price £550, including stock. 198/28, Office of this Paper.

MANCHESTER SUBURB. — Progressive Cash Retail in rapidly growing district; returns, 1928, £1,388; N.H.I., Kodak Agency; well-fitted pharmacy, with convenient house; fittings and goodwill £350; stock at valuation; property £950, or lease might be considered. 196/37, Office of this Paper.

NORTH LONDON.—Good-class Retail Pharmacy and Optical Business for disposal; well-fitted shop; plenty of scope. Full particulars on application to Messrs. Hillier, Parker, May & Rowden, 27 Maddox Street, W.1.

NORTH WALES SEASIDE RESORT.—For immediate disposal, good Family Dispensing and Photographic Business; excellent reasons for selling. Apply 145/145, Office of this Paper.

COUTH WALES.—Good main road Business for Sale in busy shopping centre; nicely fitted; good windows; clean stock; plenty of scope for young, energetic man; pleasant house; owner giving up; cash required about £1,100. 198/18, Office of this Paper.

YORKSHIRE, W.R. (in main road).—General Retail Business, with good N.H.I. connection; returns, average for past 3 years, £1,000; electric light; low rental; stock (approx.) £400, fixtures £100; auditor's figures open to inspection. 198/37, Office of this Paper.

PROPRIETOR of Country Business opening up in another part of the country will sell lease and goodwill of present business for £50; turnover £900; good profits; donble-fronted shop in good position; splendid opportunity for young man and good prospects. 199/16, Office of this Paper.

PETURNS £10,400 quadrupled last 20 years, old established, in best position large town; Radio Department doing £2,600; D. & P. workrooms handling 8,000 own orders; Kodak Agency; best class trade at good prices; net profit about £1,400; live concern for sale with freehold premises, approximately £16,000 inclusive. 197/23, Office of this Paper.

£225 ALL AT, value of fittings alone, Chemist Branch, main road, Lancashire town, at present Drug Stores; good opening for young qualified in N.H.I., Photographic and Optics; lease, with or without house; electric light throughout; bargain for quick sale. "Chemist," 5 Marquess Road, Canonbury, London, N.1.

## AGENCIES.

CHEMICALS.—Munich business man, with own car, covering Bavaria and good connection, seeks representation of good standing English firm. P.C.B. 14/26, Office of this Paper.

OLD-ESTABLISHED firm of Manufacturing Chemists and Druggists is prepared to share expenses of capable Resident Representative for Shanghai and Northern China. Replies to 144/131, Office of this Paper.

## PREMISES TO LET.

PREMISES to Let, High Street, Burnham, Bucks; double-fronted shop, dining room, kitchen, scullery, four bedrooms, bathroom, etc.; very suitable for Chemist and Photographer. Apply E. & E. Lawley, Newsagents and Stationers.

SHOPS with Flat over to Let on lease in excellent position at Bromley; suit Chemist. Apply Baxter, Payne & Lepper, opposite G.P.O., Bromley, Kent.

## PREMISES FOR SALE.

BENFLEET, ESSEX (L.M.S.).—Splendid opening for Chemist in new row shops; freehold £950, or £2 weekly rent, exclusive; will pay to investigate; builders will give reasonable help to open a good man. Apply Raffin & Bonson, Builders, Benfleet (near Southend).

IVERPOOL (middle-class suburb).—New House and Shop, splendid position, Queen's Drive, Stoneycroft; no opposition; an excellent opening for Chemist; price £1,500, of which £1,100 can be arranged on mortgage. Apply 144/108, Office of this Paper.

MAIN road position in rapidly developing neighbourhood, 7 Victoria Parade, Cranbrook Road, Ilford; single-fronted shop with imposing elevation; ample living accommodation and yard at rear with entrance for vehicles; suitable for Chemist; £1,475 freehold (excluding shop front); liberal mortgage with easy terms of repayment arranged on request. Apply Suburban Developments (London), Ltd., Estate Office, Perth Road, Ilford, E.

### PREMISES WANTED.

WANTED, premises, good living accommodation, for Drug Store; healthy district; must be low rent, rates, with ecope; not too much multiple opposition, etc.; Yorkshire district preferred within reasonable distance Leeds or Bradford; district considered where ladies' outfitting could be added. Particulars to 196/14, Office of this Paper.

#### APPOINTMENTS.

THE Council of the Pharmaceutical Society of Northern Ireland invite applications for Examiners in the following subjects under Schedule 2, Part IV, of the Pharmacy and Poisons Act (Northern Ireland), 1925:—

Pharmacy and Practical Pharmacy. Pharmacognosy and Botany. Chemistry and Physics. Business Methods.

Applications should be addressed to the Secretary, 55.56 Scettish Provident Buildings, Belfast, from whom all particulars may be obtained, and should be received by him not later than 6th April, 1929.

## SITUATIONS OPEN.

#### RETAIL.

#### [HOME.]

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid.

The Anvertiser may if preferred have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-

BIRMINGHAM.—Photographic Department. Assistant, used to developing and printing. Thonger, Bournbrook, Birmingham.

BIRMINGHAM.—Qualified Assistant or Manager for limited company; easy hours; small amount Dispensing only; living accommodation; suit elderly couple; state terms in first letter. Apply 198/13, Office of this Paper.

BRENTWOOD, ESSEX.—Wanted, for branch, now or in a fortnight's time, unqualified male Assistant, age between 21 and 27, for brisk Counter and Dispensing, N.H.I., Photographic; holiday given this summer. Apply, stating experience, age, references, salary expected, and full particulars (photo if possible), to T. Bellamy, Pharmaceutical Chemist, 2 Tindal Square, Chelmsford.

PRIDGWATER.—Wanted, qualified lady as Manager, Retail Pharmacy. Apply, stating age, experience, height, salary required (enclosing photograph, to be returned), W. Deacon, Pharmacist, Bridgwater, Somerset.

BRISTOL.—Assistant (either sex) for light work in goodclass business; must have had good Dispensing experience in pharmacy. 199/17, Office of this Paper.

KENT.—Assistant required (not over 30) for market town previous experience of Agricultural trade essential. Give full particulars, stating age and salary required, 196/290, Office of this Paper.

IVERPOOL.—Smart young qualified man required, to work up neglected business; energetic, resourceful and with good Counter, Prescribing experience and knowledge of Photography. Apply 198/1, Office of this Paper.

I ONDON, S.W.1.—Unqualified Junior Assistant (male), good Dispenser, Window dresser, for April 2. Apply, giving full particulars and state salary required. Applicants not answered in three days declined with thanks. Whiting & Co., 204 Ebury Street, Victoria, S.W.1.

I ONDON, N.-Junior Assistant required immediately; must be used to busy Counter trade and N.H.I. Dispensing. State age, salary required, when at liberty, etc. 196/29, Office of this Paper.

ONDON, N.W.—Qualified Manager, about 30 years of age, fer Family and Dispensing business in good suburb; exceptional opening for thoroughly capable man. Give full details of previous experience, salary required, and when disengaged. 196/292, Office of this Paper.

I ONDON, E.7.—Young unqualified Assistant wanted, April 8, I I with good all-round experience, Dispensing, Counter, Photographies and Window-dressing. Full particulars of experience and salary required to 145/158, Office of this Paper.

LONDON, S.W.—Unqualified, energetic Assistant for Dispensing, Counter and Window, in modern Cash business. In reply please give full particulars as to age, salary, experience and reference to 198/25, Office of this Paper.

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LADY cha and gir Barl St LONDON, N.W.10.—A young lady, experienced Book-keeper, also to assist at Counter and able to dress Window. State full particulars of age, experience and salary required, to 145/141, Office of this Paper.

MIDLANDS. — Qualified Assistant required immediately; would suit elderly man; permanency. Give full particulars of experience, and state salary required and when at liberty. 196/293, Office of this Paper.

NEAR CHESTERFIELD.—Qualified Branch Manager (male) for Light Retail, N.H.I., Photographic; living accommodation; no Sunday duty; permanency for reliable man. Please give full particulars of age, experience, salary required, photo (if possible), when disengaged, etc., in first letter. 197/22, Office of this Paper.

NORTH MIDDLESEX HOSPITAL, EDMONTON, N.18.

MALE Assistant to Radiographer required immediately; age not over 45; salary £180 per annum and meals when on duty; hours normally 9 a.m. to 5 p.m., Saturdays 9 a.m. to 1 p.m.; must be experienced in electric circuits and wiring, and is expected to be well educated, keen and ambitious; a knowledge of Chemistry and Physics is desirable, and opportunity will be given to train for the examination of the Society of Radiographers. Applications to be made in writing only, stating age and full details of experience, with copies of not more than three testimonials, to Surgical Director, North Middlesex Hospital, Edmonton, N.18. No canvassing.

SURREY.-Lady Assistant, M.P.S., wanted in high-class Family business. Please state experience, age and salary required in first letter, to 198/26, Office of this Paper.

A SSISTANT (male), experienced, qualification not essential, for holiday relief June to September inclusive; smart appearance, good address, and pleasing manner essential. Matthews & Son, Chemists, 722 High Road, Leytonstone,

A SSISTANT, young, qualified, wanted April; must be used to quick Dispensing and Counter trade and knowledge of Photography; able to take charge if necessary. Age, experience, salary required and photo (will return). J. W. Deakin, Ltd., Northwich, Cheshire.

A SSISTANT, unqualified, male, required for country business in Norfolk; must be reliable Dispenser, good Window-dresser, with knowledge of Photographic trade. Apply, giving full particulars of previous experience, whether married or single, age, beight, and salary required, to 199/28, Office of this Paper.

AT ONCE.—Unqualified man for Locum; one month at least, longer period possible; assist Stocktaking and Counter. State salary, recent reference required. Edward Jones, Chemist, 139 High Street, Guildford.

AT ONCE.—Qualified Manager required for country pharmacy in Bedfordshire; good Prescriber, Salesman, with allround experience, energetic and capable Buyer. Give full particulars, references, salary required. 198/10, Office of this

CITY Pharmacy has vacancy for gentlemanly youth as Apprentice; good training; time for study. "Pharmakon," 196/32, Office of this Paper.

EXPERIENCED Assistant wanted (male), aged 25-30. Full particulars of experience, salary required, etc., to C. Dickinson, 119 South End, Croydon.

GOOD Junior required; reliable; trustworthy; comfortable job for active man; also Junior for holiday relief, June Sep-tember. Apply Manager, Venables, Qualified Chemists, 54 Fulham Palace Road, near Hammersmith Broadway, W.6.

JUNOR, unqualified, medium height, quick, neat, accurate; N.H.I., Counter, Stock. State age, height, experience, salary required. Applications not answered in three days respectfully declined. H. Temperton, Chemist, St. Mark's Road, Enfield.

JUNIOR or Improver (male) wanted for good Dispensing and Retail. W. Pickard, 80 North End Road, W.14, opposite West Kensington Station.

JUNIOR or Improver, opening for a capable man of good character for pharmacy near London; living in would be considered. Apply R. Barron, Chemist, Epping.

LADY Assistant wanted, early April; must be experienced in Counter work and Dispensing. Apply, stating full particulars, to J. Beal, 446 Rochdale Road, Manchester.

LADY, qualified, wanted shortly; must be capable of taking charge if required. State experience and salary required, and give recent references (with photo) to W. H. Green, 28 Earl Street, Coventry.

LADY, qualified, conscientious, careful worker, required by chemist, Sunderland district, chiefly for N.H.I. Dispensing, some Counter relief; short hours; no Sunday or holiday duty; moderate commencing salary. Please state age, experience, salary required, photo if convenient, to 199/27, Office of this Paper.

MESSRS. DAVIES, JOHN & ASPELL, of Bath, require at well-educated, capable Assistant, about 25 years old, in their high-class Dispensing business. Please enclose photo with full particulars of experience and salary required; good appearance and address important; duties front counter principally; applicants not answered in three days respectfully declined.

QUALIFIED Assistant (male), age under 50, for Halifax; must be capable Dispenser and have knowledge of Photography. Give full particulars, stating age, experience, and salary required. Reply to A. C. Dutton, M.P.S., The Pharmacy, Denholme, Yorks.

QUALIFIED Pharmacist; good prospect for first-class man; must have excellent references; knowledge of Optics would be an advantage, but not essential. In reply give full particulars to "H. R. H.," Randall & Wilson, Ltd., Dispensing Chemists, Southampton.

QUALIFIED Assistant; must be capable, gentlemanly, energetic, and able to furnish good references; age between 25-35. Apply, giving all particulars and stating salary required, to Alfred Bond, Ltd., The Pharmacy, 45 Bank Street, Newquay, Cornwall.

QUALIFIED Manager for quick Counter trade; must be good Salesman and have sound Photographic experience, and able to control staff. Apply, with full particulars, to Manager, T. H. Prichard & Son, Ltd., Medical Hall, Abertillery.

QUALIFIED Branch Manager. State age, salary, experience and references in first letter. Balf Bros., 166 Rochdale Road, Harpurhey, Manchester.

QUALIFIED Assistant required immediately for quick Retail trade; within easy reach of London. Please write, giving full particulars, to 199/1, Office of this Paper.

QUALIFIED male Assistant required at an early date in high-class West-End Dispensing establishment; must have had good experience in similar business. Apply to W. S. Rogers, R. Hogg & Son, 40 Connaught Street, Hyde Park, London, W.2.

QUALIFIED Assistant required at once (in Wiltshire country town); medium-class trade. Full particulars 199/24, Office of this Paper.

PEQUIRED, young qualified Assistant, male (Hall qualification insufficient); hours 9 a.m. to 6 p.m.; salary £200, rising to £250, subject to deduction for Superannuation Fund; lunch and tea provided daily. Apply to The Pharmacist, King's College Hospital, S.E.25.

CEASON Assistant wanted soon for developing and printing; either sex; state salary required. Bastow, Chemist, Chichester.

THOROUGHLY capable; unqualified; age about 35; quick and accurate Dispenser; good Counterman, Window-dresser; Photographic; abstainer. Write full particulars and salary required. "G. S.," 117 High Street North, East Ham, E.6.

UNQUALIFIED Dispensing male, about 22 years of age, wanted immediately for West-End Store; good Dispensing experience essential. Write, giving full particulars, to Box 53, c/o C. Vernon & Sons, 14d., 38 Holborn Viaduct, E.C.1.

VACANCY for qualified Counter Assistant (25 years); also Junior Assistants or Improvers (20 years)) for quick medium-class Retail; either sex; required immediately; permanent, progressive position. Apply, with fullest particulars and snap, to The Prosser Roberts Co., Pharmaceutical Chemists, 13 Church Street, Camberwell, London, S.E.

WANTED, Junior or Improver, country business in Sussex; easy hours and knowledge of Agricultural business an advantage; unqualified. H. W. Harrie, 21 The Green,

WANTED, at once, Junior or Improver (male); sound know-ledge of general shop routine. Apply, giving full par-ticulars in first letter, to Loesby-Jones, Ph.C., 16 Station Road, Chingford, E.4.

WANTED, a young qualified Assistant; good references; must be smart, active, and good Window-dresser. Apply 145/135, Office of this Paper.

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WANTED for South Devon, Assistant (male), age about 24; qualified for preference; accustomed to high-class Dispensing business. 198/25, Office of this Paper.

WANTED, Junior for high-class Dispensing business. W. Browne & Co., 509 Finchley Road, Hampstead, N.W.3.

WANTED, qualified male Assistant; principally for Dispensing; must have had good-class experience. Apply Quibell, 885 Finchley Road, Golders Green, N.W.11.

WINDOW-DRESSER (male), accustomed Display. Drugs, Toilet, Photo and Radio; able assist Counter if necessary. Fall particulars, photo, references, Bathe's Drug Stores, 24 Fleet Street, Torquay.

WOUNG qualified man required for carrying out relief work during summer season; this is a splendid opportunity for getting experience, with prospects of a good permanency if satisfactory. State age, previous experience, and satury required. 196/291, Office of this Paper.

YOUNG lady required, familiar with Toilet Requisites; knowledge of N.H.I. Dispensing; must be a good Saleslady; East End of London. State wages required and previous experience. 197/24, Office of this Paper.

#### WHOLESALE.

RELIABLE Representative; with a sound connection amongst Chemists. Ironmougers and Hairdressors, etc., in the Southern Home Counties and the South Coast, desirous of taking up an additional non-competitive line, on commission basis, required for furthering the sale of "Eclipse" Safety Razor Blades. Send full particulars to James Neill & Co. (Shemeld), Ltd., Composite Steel Works, Napier Street, Shemeld.

A VACANCY occurs in the Laboratories of a Provincial Wholesale House for a Chemist with Major qualifications, to undertake analyses and similar work. Write, with fullest particulars of experience, salary required, to 145/140, Office of this Paper.

A CTIVE Representatives required; excellent connection Chemists in Scotland; 12½%-20% commission; expenses after trial period. 144/132, Office of this Paper.

A SSISTANT, qualified, for Wet Counter of Northern Provincial Wholesale House, to take charge; state experience, wages, etc. Write 145/159, Office of this Paper.

DEATH VACANCY.—Representative wanted to interview Medical Men in the North of England on a salary and commission basis. Apply, stating experience of salesmanship, therapeutic knowledge, age, etc., to W. H. Legat, Ltd., "Cross Axes."

ENTERPRISING and old-established firm, about to introduce a further two novel and quick-selling lines to be well advertised, has opening for a live Salesman who can produce proof of past proficiency; terms will be on salary, expenses, and commission basis, and new saloon car provided; ground to be worked will be Home Counties, East Anglia and South-East Coast. Applicants must send proof of salesmanship and sound references to The Peronia Company, Ltd., Stoney Street, Nottingham.

IIIGH CLASS Salesmen; sound London connection with Chemists. Full particulars to 194/14. Office of this Paper.

MPORTANT leading firm of Manufacturing Chemists require immediately Salesman for Eastern Counties; replies solicited from first-class applicants accustomed to obtaining business from Chemists, Stores, etc. Write, giving full particulars of age, experience and salary required, to 145/137, Office of this Paper.

REPRESENTATIVE wanted for Hairdressers' and Toilet Specialists for London district; must have established conjection; salary and commission. Give full details of experience, 144/130, Office of this Paper.

REPRESENTATIVES wanted for high-class French Perfumery House :-

1. MIDLANDS, 2. YORKSHIRE. 3. LONDON.

Salary, commission and expenses. Only those with Perfumery connection need apply, in confidence. 144/127, Office of this Paper.

REPRESENTATIVE required, age about 50, to represent a well-known Proprietary in the Western Counties. 145/144, Office of this Paper.

REPRESENTATIVES may have full particulars of inviting side line carrying good commission; product is old established and nationally advertised, and ofters exceptional opportunity to increase income; exclusive territory given where possible; state ground covered. 145/134, Office of this Paper.

CALESMAN wanted, with first-class connection amongst Chemists, to sell exceptionally smart range of Specialities of proved merit; certain repeaters; very liberal terms; successful men would be offered a very ducrative and permanent berth; present representatives earning over £700 per annum net. Applicants must state in first letter (in strict confidence), agoexperience, and particulars of present lines carried, ground desired. Write 199,29, Office of this Paper.

THOMPSON & CAPPER (WHOLESALE), LTD., Manesty Buildings, College Lane, Liverpool, will shortly have a vacancy for a Traveller in the Lancashire and Yorkshire district chiefly.

WANTED, at once, first-class Salesman for advertised Toilet Specialities; London and suburbs; must be thoroughly experienced and have a line connection with leading buyers, and be able to place displays and arrange selling schemes; an opportunity for a man with personality and energy; residence in London essential. Apply 145/136, Office of this Paper.

WANTED, Representative for Home and Midland Counties, not London; must be first-class man with established connection of several years; to call on Chemists only for an oldestablished house with a good connection; salary and commission 144/129, Office of this Paper.

YOUNG man required, age about 19 years, accustomed to wet and dry counter. Apply any morning at 10 o'clock to Parkes Chemists Ltd., 65 Harmood Street, Chalk Farm, N.W.1.

YOUTH, 17-19, required to help in a warehouse assembling and packing Patent and Packed Goods, etc., for branch retail shop. Apply, stating experience, salary required, etc., to Ascott's Pharmacy, Ltd., 159 Hemingford Road, N.1. 'Phone: North 4665.

#### (COLONIAL, INDIAN AND FOREIGN.)

TUROPE.—Pharmacist, young, single, French speaking, preferably with some Continental experience, required by London firm of Manufacturing Chemists to travel as their Representative in Europe; applications from unqualified candidates who have had good pharmaceutical training will be considered. When applying state age, nationality, previous experience, salary required, etc., to 144/135, Office of this Paper.

SPAIN AND SPANISH AMERICA. — Traveller, young, single, preferably qualified, able to speak Spanish with reasonable fluency, required by London firm of Export Druggists; if unqualified, candidates should have had experience of Drug and Fine Chemical trade; British nationality preferred; progresive position for suitable man. Applications to be addressed to 144/123, Office of this Paper.

#### SITUATIONS WANTED.

#### RETAIL. [HOME.]

2s. for 18 words or less; 6d. for every additional 10 words or less, prepaid.

A.A. A. -CHEMIST, 28, not afraid of work, desires pertials; disengaged month's notice. 198/32, Office of this Paper.

A CAPABLE and experienced qualified Chemist; middle-aged; permanency or Locum. "Chemist," 415 High Road, Leytonstone, E.11.

A QUALIFIED Chemist, experienced in all branches of pharmacy, requires progressive position as Manager, with living accommodation. 198/21, Office of this Paper.

A DVERTISER, unqualified, 37, seeking change, Midlands or Home Counties; good Prescriber, Counterman, Windows, Photography, Optics, etc.; used to good-class Family trade and high-class Dispensing; well recommended. "Eadem," 196/26, Office of this Paper.

A DVERTISER, fully qualified, with 7 years as Manager, good Dispenser and Salesman, all branches, Photographic work, desires change; London or South Coast preferred. "G.," 198/7, Office of this Paper.

A N experienced, competent, reliable Assistant desires permanency; smart salesman, Window, dresser, Dispenser; Photography; unqualified, "Disengaged," 74 Watlington Street, Reading. A S Manager; qualified; reliable man of wide experience; extra good references; liberty April 15. Thomas, Chemist, Killinghall, Harrogate.

A S experienced; management, Locum, Drug Stores; Prescriber, Salesman, Photo, Dispensing; smart and alive. "G.," 130 Scott-Ellis Gardens, N.W.8.

SSISTANT or Locum; 33; unqualified; excellent Salesman, accurate Dispenser; experienced in all branches; undeniable references; disengaged March 24. Apply D. Sargent, 32 Dock Street East, Roker, Sunderland.

A SSISTANT; unqualified; 22; 4 years' experience; highest reference; London preferred. P.C.B. 15/3, Office of this Paper.

A SSISTANT; unqualified; middle-age; active; many years' all-round experience, London and country; country preferred... "Chemicus," 56 Norroy Road, Putney.

A SSISTANT; 22; Part I April; 6 years' all-round experience, including City; commence April 8; salary £3 5s. Williams, "Eirianfa," Adwy, near Wrexham.

A SSISTANT, unqualified, good Dispensing and Counter experi-ence; Photo sales, D. & P., desires post; season or per-manency; excellent references. "Statim," 33 Newport Road,

A SSISTANT, unqualified, 23, 4 years' West-End experience, desires position City or West-End; at liberty month's notice. 199/14, Office of this Paper.

A SSISTANT; 33; married; 14 years' experience, good-class Retail, Dispensing, Photography; living accommodation preferred, but not essential; any district. Andrews, 101 Boundary Road, St. John's Wood, N.W.8.

A SSISTANT, unqualified, seeks permanent situation; Counter, Window-dressing, and Photographic experience. Full particulars on request. 198/24, Office of this Paper.

BOOK-KEEPING required by experienced lady Dispenser; quick, neat and accurate; good references. Miss Grant, 47 Hayes Way, Beckenham.

BRANCH Manager; qualified; thoroughly experienced; successful record; disengaged when suited; locality optional. Johnson, 70 High Street, Redbourn, Herts.
BRANCH Manager, 25, qualified, excellent Salesman, accurate Dispenser, good references, desires post in Yorkshire; available immediately. 198/39, Office of this Paper.

BRIGHTON DISTRICT.—Lady, 27, qualified, desires post; Hospital or Retail; excellent experience. "I. R. S." (Dispensary), General Hospital, Willesden, N.W.10.

CAPABLE Assistant, best varied experience, desires permanency; town, seaside or country; unregistered, but used to management under principal; revivify neglected; smart Salesman; disengaged; state salary. "N." Hazelgrove House, Edwinstowe, Notts.

CAPABLE Assistant requires situation; unqualified; married; 24; good all-round experience. Wright, 259 Coldhams Lane, Cambridge.

CHEMIST, 35, married, experienced Manager, 3 years last position; used to busy Counter, Photography, Wines; permanency in good-class Family business desired. "Qualified," 22 Booth Street, Handsworth, Birmingham.

D. & P.: competent to take entire charge; 6 years' experience; excellent references. "D. & P.," 1 High Street, Romford.

DISENGAGED.—Competent, all-round energetic Assistant, tall, 40, unqualified (would entertain Wholesale). "Statim," 23 Doughty Street, Holborn, W.C.1.

DISPENSER-BOOK-KEEPER (Hall), age 20, requires post with Doctor, Hospital or Institution; S.W. London preferred. E. Puddy, Grove House, 432 Upper Richmond Road, S.W.15. Tel.: Putney 3242.

ENERGETIC, qualified Manager, age 28, with high-class experience, London and provinces, exceptional Salesman and business builder, desires post; living accommodation preferred. 198/14, Office of this Paper.

IMMEDIATE, Locum or permanency; pharmacist (34), experienced Manager, Hospital, etc.; abstainer; now free; will call on receipt of card; excellent references ('Phone: Mus. 6513). "Statim," 57 Albany Street, Regent's Park, N.W.1.

JUNIOR wants situation, London or Liverpool; 22 years; 6 ft.; 5 years' experience; Irish qualification; quick Dispenser; Photographic and Counter experience. 196/17, Office of this Paper.

JUNIOR; 21; 4 years' experience; capable; recommended. Richards, c/o Rowe, Chemist, Narberth.

LEWIS, Chemist, Fishguard, can recommend a lady Junior Assistant with every confidence.

L OCUM; experienced in all branches; qualified; active; excellent references; terms moderate; disengaged now. 'S. C. I.,' 54 Priory Road, West Hampstead, N.W.6. 'Phone; Hampstead 7151.

LOCUM work or part-time; qualified; disengaged; best credentials; West-End and provincial experience. "H. E. H.," 45 Lambton Road, Hornsey Rise, N.19.

L OCUM or permanency; London experience in Dispensing, Counter, Windows, Prescribing; unregistered; competent; trustworthy. "H.," 11 Trigon Road, S.W.8.

L OCUM or permanency; qualified man; 28; single; experienced and reliable; moderate terms; Lancashire preferred, but not essential. 198/6, Office of this Paper.

 $\mathbf{L}^{ ext{OCUM}};$  qualified; active; reliable and experienced; satisfaction given; offers wanted. Briggs, 8 Brooke Street, Dudley.

LOCUM or permanency; qualified; 46; all-round experiences disengaged. "Z.," 3 High Street, Emsworth, Hants.

L OCUM; Easter free; booking dates; anywhere; middle-aged; abstainer; energetic; capable; excellent references; given up own business; lowest possible terms. James, late The Pharmacy, 156a Town Street, Rodley, Leeds.

OCUM or permanency; thoroughly capable worker, with excellent references; free March 27; abstainer; unqualified, W.," 10 Padgitt Street, Chatham.

LOCUM; experienced all branches; well recommended; returns kept up. J. Frost, 6 Paragon, Blackheath. 'Phone: Leo

LOCUM, thoroughly competent, disengaged for Easter; highest references; reasonable terms; town or country. "Chemicus," 56 Rudloe Road, Balham, S.W.12.

LOCUM; qualified; disengaged; splendid references; open for Easter and after; any distance; reasonable terms. Jones, victoria Road, Marlow-on-Thames.

MANAGER, Locum or part-time; reference R.P.U., etc.; disengaged April 6; interview if desired. "Chemist," 17, Headfield Road, Savile Town, Dewsbury.

MANAGER, thoroughly experienced in all branches of the Retail business, desires post; permanency. "Qualified," 26 Chelmsford Road, South Woodford, E.18.

MANAGER qualified, 36, capable of controlling substantial business; thoroughly experienced Pharmacy, Photographic and Window-dressing, London and Provinces; first-class references; good remuneration expected and willing to earn it; permanency preferred. 200/5, Office of this Paper.

MANAGING Assistant; unqualified; 16 years' Retail; window-dressing; experienced, Dispensing, Photographic, Window-dressing; undeniable references; Locum entertained, "Statim," Colwyn House, Mislvern Link, Worcestershire.

MANCHESTER OR SUBURB.—Situation wanted as Junior; age 22; disengaged; capable and reliable; good all-round experience; highly recommended. H. Copple, 181 Sussex Street,

M.P.S., 8 YEARS' good-class, all-round experience, desires photography; smart; good references; disengaged. Watsom, 15 Granville Road, Harrogate.

MR. C. BAYLEY wishes to recommend Mr. Wilfred Hart for position as Junior Assistant where opportunity for studying for Part I is available. Apply C. Bayley, Uppingham,

MR. MERRELL, Pharmacist, 181 York Road, Camden Road, N.7, wishes to recommend his lady Assistant; a quick and accurate Dispenser and Book-keeper and generally efficient; snart appearance, obliging, and thoroughly capable; 10 years experience. Apply above address.

PRINCIPAL recommends Junior. Who wants worker? London, S.E., preferred. 195/22, Office of this Paper.

QUALIFIED, 36, single, Manager or Assistant, desires permanency; all-round experience. Smith, 72 Strahan Road, London, E.3.

QUALIFIED, 39, thoroughly experienced, 14 years as Manager, Pharmacy, Photographic, Window-dressing, desires position in or near London. 198/31, Office of this Paper.

QUALIFIED, tall, married, experienced in all branches, desires position of trust in Retail or Wholesale; disengaged. Full particulars of position offered to "A. C. P.," 3 Cromwell Street,

QUALIFIED; 23; good Dispensing and Photographic experience; permanency desired. Write BM/KF6S, London,

SHROPSHIRE (or near).—Wanted, Managership or Senior im good pharmacy; must be busy or with conditions for increase under interested, sincere, and keen worker; permanency; qualified; age 34; single; good manner and appearance; references and experiences—the best; wage £4 10s. to £5 and commission. "Polas," 195/25, Office of this Paper.

TAUNTON.—Qualified lady, 25, desires post; at present managing. 144/125, Office of this Paper.

TEMPORARY or permanent; disengaged; middle-aged; managerial experience; unregistered; good references. "T.," 2 Allestree Road, Fulham, S.W.6.

UNQUALIFIED; Dispensing, Display or Photo; willing to take all positions. "F.," 26 Goldsmith Road, Leyton, E.10. UNQUALIFIED lady Assistant; 5 years' experience, N.H.I., Dispensing, Counter and Photography; capable of taking charge; age 25. 198/20, Office of this Paper.

#### ALL DRUG AND CHEMICAL WORKERS should join at once

THE NATIONAL UNION OF DRUG & CHEMICAL WORKERS (Incorporating the National Association of Chemists' Assistants) BENEFITS: Trade Protection—Legal Aid—Unemployment Benefit—Free Use of Employment Bureau Write for particulars:—ARTHUR J. CILLIAN, Gen. Sec. 149 Newington Causeway, LONDON, S.E. 1

UNQUALIFIED, 10 years' good all-round experience, Dispensing, Counter and Photographic work, age 25, requires permanency; good references; disengaged March 30. "W.," 39 Lavender Gardens, Clapham Junction, S.W.11.

UNQUALIFIED; first-class Counter, Dispensing, Photographic; age 20 years; disengaged March 22; excellent references. J. Landsman, 3 Alderney Road, Mile End.

WANTED, Managership of Drug Stores with view to early succession; London or South-Eastern Counties preferred. Write 194/37, Office of this Paper.

WOMAN Dispenser (Hall), 25½ years' present post, desires change; whole or part time; would suit Country Doctor. 130/40, Office of this Paper.

WORKSHIREMAN desires change; energetic Prescriber, Counter, Window-dressing, Photographic; used to quick hash trade; unqualified; 33; London, Manchester, Birmingham experience. "Statim," 2 Park Crescent Mews, West Marylebone Road, W.1.

#### WHOLESALE.

A DVERTISER, unqualified, 31, tall, keen, good salesman, progressive, present managing Retail, requires any post with prospects; excellent testimonials. 199/25, Office of this

CAPABLE Representative, splendid connection suburbs and 60 miles round London, own car, desires permanent position with first-class house; height 5 ft. 11 in; age 45; can prove successful sales record; very excellent references and character. F J. G.," 194/38, Office of this Paper.

EXPERIENCED, energetic Salesman, perfect knowledge of Retail, desires outdoor position with progressive firm; present and previous positions with first-class firms of exceptional standing; thoroughly reliable, possessing strong credentials, and soundly recommended. Wnt. A. H. Fry, 31 Howard Road, South Yardley, Birmingham.

CENTLEMAN, 28, resident in Ireland, wishes to represent good firm; 12 years' first-class Retail experience; 2 years as Medical Student; splendid references; douse; strict T.T.; delights in work. Day, Railway-Hotel, Arklow, Ireland.

KEEN Representative, well known buyers, London Stores, Chemists, Ladies' Hairdressers, offers his services to enterprising Manufacturer or Agent on a month's probation for £3 week and 5% commission. 199/7, Office of this Paper.

KEEN, qualified, 27, desires technical post, Works Chemist, Laboratory, or similar; good knowledge Engineering and Photography. 197/36, Office of this Paper.

ANCASHIRE AND YORKSHIRE.—Representative for old-established firm; good connection with Chemists and Hair-dressers; would take an additional Agency on commission basis guid reasonable proportion of expenses. 199/13, Office of this

PERESENTATIVE, highly educated and gentlemanly, having first-class connection with Medical Profession and Chemists and wide experience of high-class Pharmacy, desires representation (Ireland); solvent connection and unimpeachable references from firms of standing. 190/15, Office of this Paper.

REPRESENTATIVE, 10 years' sound experience, calling on Chemists, Hairdressers, selling Drugs, Toilets, Packed Goods, desires post, progressive house. 196/12, Office of this Paner.

THOROUGHLY competent Representative, 27, own car, 7 years' connection Northern Counties, present firm 7 years (Sundries), desires non-clashing line; advertised Proprietary. Lee, "Cringlewood," Elms Drive, Bare, Morecambe.

VOUNG lady, experienced in actual Manufacture of modern Perfumery and Toilet goods (except scaps), capable of laking charge of making, filling, labelling and packing, requires position, Bradford-Leeds. 199/25, Office of this Paper.

#### FOR SALE.

A COMPLETE set of Mahogany Fixtures, also Electric Mortar, Sky Sign and Bracket. Write in first instance The "Chemist," 10 Spottiswoode Road, Edinburgh.

CLEAR OUT—your Old or Damaged Stock of Photo Goods.

Why keep them any longer? Turn them into CASH.

GIVE BEST PRICES for Old Films (damaged, fogged or expired dates); Packet Papers. Cards (any sizes). Old Photo Goods or Cameras. Bromide Papers. Plates (all sizes, all makes). Send any goods in the photo line. I buy all, good or bad. Cash per return. A good price for all Cameras. Send them along.

S. E. HACKETT, 23 July Road, Liverpool

KEAT HALVIVA, well-known Tonic, established 1892, stocked by "Boots" and well-known stores; Recipe and World Rights for Sale; price £1,500, or near offer. Write Box 146, c/o Davies & Co., 95 Bishopsgate, E.C.2.

TWO Baby Scales (Vandomes), cost 5 guineas each, good condition; sensitive to 4 oz.; complete with hasket and weights. Offers to Matthews & Son, 722 High Road, Leyton-

#### MISCELLANEOUS.

CHEMIST FITTINGS.—Complete Fittings in stock. Ranges of Drug Drawers with glass labels, shelving and lockers, glass-fronted Counters, Dispensing Screens, Wall Cases, etc.; all made in sections which any local man can fix. Also Second-hand Fittings, Shop Rounds (ribhon and recess lahels); Cash Tills from 15s. 6d. Kwik-Sale Case, special Chemist design. D. MATTHEWS & SON, Chemist Fitters, 14 and 16 Manchester Street, Liverpool.

MAHOGANISED CHEMISTS' FITTINGS.—Complete Drug-M. fittings, 12 ft. and 10 ft. long, 8 ft. 6 in. high; Wall Cases, 10 ft., 8 ft. and 6 ft. long, 8 ft. 6 in. high; Glass Case Front Counters, 10 ft. and 8 ft. long; Dispensing Screens, 6 ft. and 5 ft. long, 5 ft. 9 in. high; Perfume Case; Desk; two 4 ft. nests Counter Drawers; plate-glass Salesman, 6 ft. high, 2 ft. x 2 ft.; 4 ft. plate-glass Counter, 3 ft. high, 23 in. wide. Low prices. GEORGE COOK, Chemists' Fitter, 27 Macclesfield Street, City Road, E.C.1.

QUALITY SHOP FITTINGS.—12 ft. Pharmacy Fitting, 10 ft. glass cased Front Counter, 6 ft. Dispensing Screen, 6 ft. Wall Case, 6 ft. bent plate-glass Counter Case, Counter Drawers, Perfume Case and Desk, all mahogany, £100; splendid value. PHILIP JOSEPHS & SONS, LTD., 90/92 St. John Street, Clerkenwell, London, E.C.1. "Pharmacy Fitters for over a Century." Century.

SECOND-HAND CHEMISTS' FITTINGS.—We have an exceptionally fine selection of these in all sizes; prices are right, and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 219 Old Street, London, E.C.1.

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